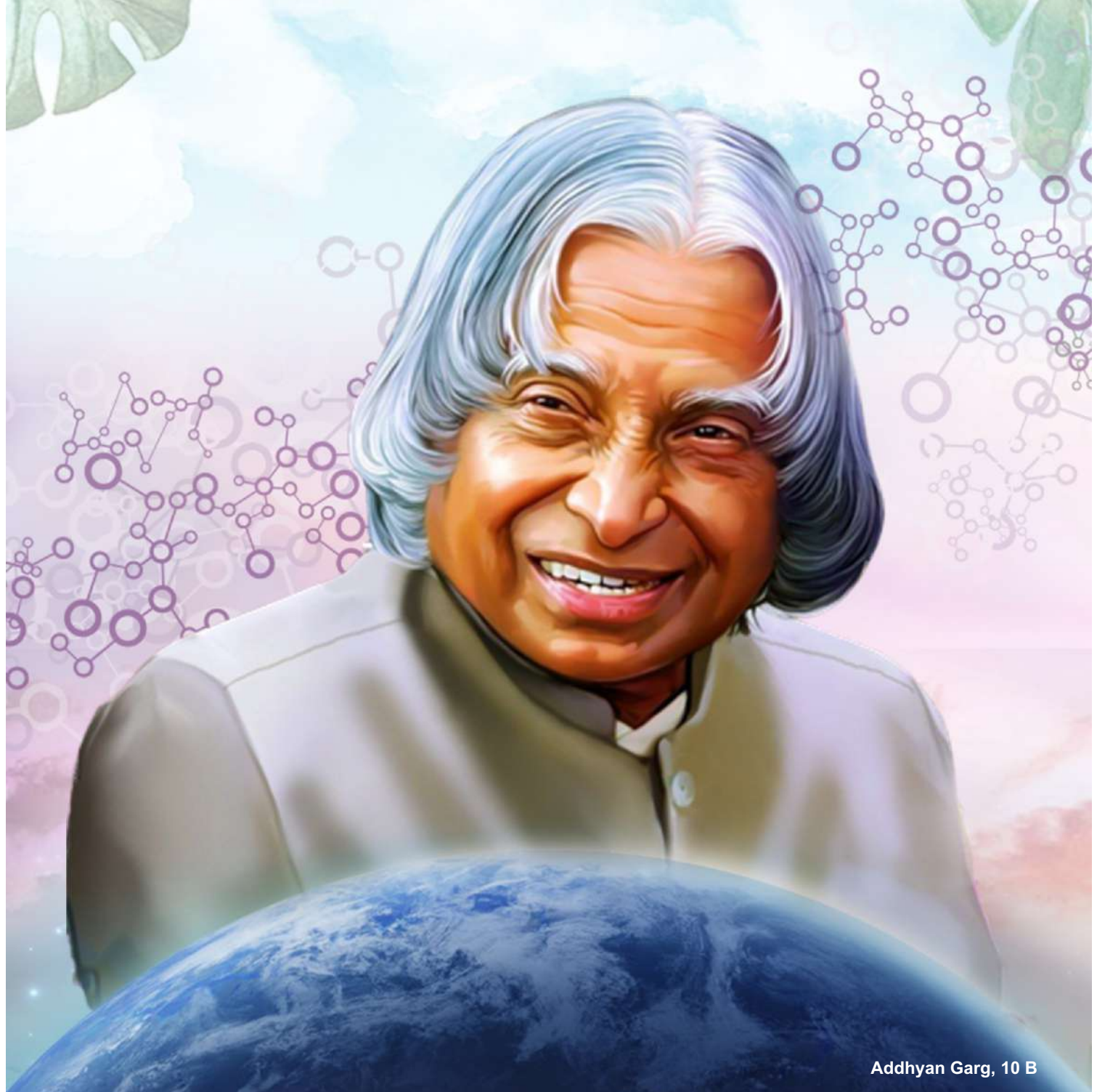


A vertical rocket is shown ascending from the bottom of the frame towards the top. The rocket is white with black and gold accents. At the base, there are four engines firing, creating a large, bright orange and yellow plume of fire and white smoke. The background is a deep blue and purple space filled with numerous white stars. The text "FROM IGNORANCE TO KNOWLEDGE" is written in large, bold, white capital letters across the middle of the rocket.

# FROM IGNORANCE TO KNOWLEDGE

Addhyan Garg, 10 B

# MAGAZINE OF SCIENCES



Addhyan Garg, 10 B

# INTRODUCTION:

This science chronicle is a collective contribution of young and curious minds brimming with innovative and creative ideas which are instrumental in the further evolution of science and technology. Our budding scientists have made sincere endeavours to articulate their compositions relevant to the theme of science. Even sky is not the limit to explore the endless possibilities of discovering scientific truths and forever expanding realm of science. It is an empowering and a great learning experience for our students.



## SCIENCE: THE VERY BASIS OF LIFE

SCIENCE IS ALL ENCOMPASSING. But in saying this, we tend to slightly confuse the reader. Let us therefore put science itself, under the microscope.

What is Science?

It is the study and knowledge about the world and natural laws. At school, we are introduced to this fascinating subject under three categories- Physics, Chemistry and Biology.

The applications of science in daily life are multifarious: For instance, let's take the cars and bikes we use to commute everyday, or the the LPG we use to cook our food with. The process of cooking and even masticating that cooked food with subsequent digestion falls within the purview of the subject. Fascinating! Isn't it?

Coming to my perception of science: I think Science is extremely beautiful and it influences every facet of human life. This is so because, most of the things we see around us is made up of science. Let us see some examples: from the gigantic plates the earth's crust floats on to the electric racket we squat the pesky mosquitoes with can be categorized as 'science'. Without science, we would not even have the knowledge of promoting health and safety. From a simple light bulb in the storeroom, to a huge solar panel used to light up remote villages in the mangrove regions, all are basically man- made technological marvels. With regard to communication we can consider the instance of pigeons that were used to deliver letters. The fact that the birds memorized their routes is nothing but science and psychology. And then let's take contemporary worldwide communication which is possible with a single click; even that is a boon of science.

Science is extremely beneficial as it is the primary tool that helps us to learn about the world and ensure protection of Mother Nature. Science is the solution for everyday problems in life.

To conclude, Science and Technology has a major impact on human beings ever since man first made fire, or polished his tools for hunting and it continues to grow day

by day, scaling new heights. Let us remain dedicated to this religion and we can be assured of unparalleled success of the human race in the decades to come.

Sarthak Kothari, 7C

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## JOURNEY TO THE SPACE AND BACK

A boy named Darsh was sitting on bluish green ground surrounded by thin anemones. His teammates were walking back and forth. Suddenly Darsh remarked, "Mark you should stop going to gym."

"Why?" asked Mark taken aback "because some relationships don't work out", replied his friend while laughing out aloud and looking at others, anticipating a glorious response. However, his teammates threw at him menacing looks. Darsh laughed nervously and tried to divert the conversation. "So... anyone got any other information about this place?"

"No, but I am trying", said John hoping that this time he could retrieve the signal."

"Keep trying John, at least you are doing something unlike others who are busy cracking imprudent jokes", Mark quipped acerbically.

"Don't you dare tell me what to do, when all you are up to, is killing time bossing around, and it's not my fault if your sense of humour has decided to take vacation", Darsh replied sassily. "You! . . .", Mark was cut off by a shout.

"Guys we got the signal. Hurry up!", said John yelling in excitement. The team mates could not believe what they had just heard. They froze at their places, letting the information sink in. No more of this queer planet where they had to force land. No more of rationing of food. No more of the terror that the oxygen would soon deplete pushing them into the scary abyss of an asphyxiating death in an unknown planet. The train of

thoughts was broken by another shout. "Get going! No time to waste. Do you want to go back to Earth or not? Home Sweet Home! I never thought I would live to see this day!", said Mark.

Soon everyone waddled back through the surface that seemed to be very soft under the gigantic space boots. They entered the spaceship each casting one last look at the lonely planet. Now everything seemed like a victory; a moment of glory. They had, after all discovered a planet. What would they name it? Would they bicker about that as well?

As John hauled the large door of the spaceship and closed it, Darsh looked at his feet. Where did all this water come from? "Guys... what's happening? The ship is filling up with water." In an instant relief turned into panic as the team realized the catastrophe. " Ahh! We are drowning, help somebody help!", screamed Darsh, startling others.

When he looked up, he discovered several pairs of eyes staring at him in disbelief. It was his physics class and he had fallen asleep.

"What an honour sir that you finally decided to wake up and attend my lecture!...and are we drowning in too much information?", the professor asked sarcastically.

"No sir. Not at all. The information is priceless. Thank you sir", Darsh went on talking unable to fathom what he was saying.

"Shut up Darsh! Meet me at the Dean's office after the class",  
commanded the professor angrily and turned to the board once again.

Tanvi Madhav, 8D

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## OUTSMARTING A ROBOT

On that day my robot was acting somewhat different. Every morning my day commenced with my usual set of instructions for it; but today it felt as if it was giving ME instructions. It was dictating terms to me. Unlike the other days, it also wasn't following my directives. In fact, it was brusque and looked as if it was trying to take over my house and me with it!

As I looked at it, I realized how advanced it had become, quite unlike the rookie robot I had brought home from the centre. This robot had the potential of changing and controlling my house. The way it behaved ,clearly indicated that it was impossible to control or outsmart this super intelligent contraption before it completely took over my house.

After some serious contemplation on the matter, compiling all my thoughts, I came up with a solution as well as a question: I have to make the machinery and myself work together, but how? Just as I was thinking about the answer, there came a noise of something breaking. I hurried downstairs and saw that the robot had been broken into pieces. I was shocked.

As I approached the dismantled pieces, my mother stood with the tool with which it must have been used as the weapon.

"Why did you do have to do that, Mom? I was coming up with a solution. After all Alex was useful to us!"  
"Now listen to me, Nehal", she began in a self-assured manner. "Machinery with artificial intelligence, may produce very useful things, they may do all your work in seconds and they may give you comfort but overusing anything will always cause harm. Robots can upgrade themselves on their own with time. And once they do so, they simply cannot accept your commands. Instead, they try controlling you and everything around you. So, it was better to nip the disaster in the bud. Don't be so dependent, Nehal. You'll have to develop soft skills yourself and work on your relationships and solve your own problems. Never get too involved in machineries as they can destroy you from within much before the things become apparent to the naked eye. I never was happy with you getting this thing into the house in the first place."

I looked at my mother and then at the steel parts strewn on the floor at what once used to be Alex. It was a life changing moment for me. I crossed the mess and did something I had not done in a long while. I gave mother a tight hug.

Nehal Rakhra, 7D

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## HOW DOES SLEEP AFFECT OUR LIFE

It is rightly said that a good laugh and a long sleep are the best cures in the doctor's book. Sleep is the natural condition of rest when your eyes are closed and your mind and body are not active or conscious. Sleep is very essential for our physical, mental and emotional growth. It gives our body and mind rest, although too much sleep can also cause fatigue and laziness.

Like everything else in this world, sleep has its own advantages and disadvantages. Sleeping not only gives us rest but also refreshes our mind and body. It improves our mood. Sleeping has interesting health benefits. It regulates our blood sugar, keeps our heart healthy, reduces the inflammation, and also improves our memory. Who knew sleeping could be so helpful!

Did you know while sleeping, our body repairs itself? Even taking a small nap can replenish your energy and increase your productivity and creativity. Sleeping can increase our athletic performance, physical and mental stability, and the balance of our body.



Sarthak Misra, 8F



Yasar Alavi, 6G

Sleeping too much or not sleeping enough can be extremely dangerous and even lethal for our body and mind. It can raise the risk of chronic diseases, diabetes, anxiety and obesity in people, especially adults. Sleeping less than five hours can triple or even quadruple the chances of a crash! That's because the person's reaction time slows way down when the brain isn't fully rested. Now the only way to keep our body healthy and fully charged is to get optimum sleep. That can be tough but there are some ways which can help us sleep, and thus, live better.

Having a regular sleep schedule is a good way to get a good amount of sleep. Taking short naps in the afternoon help tremendously. What we eat before sleeping is also an important factor. We should eat light food before sleeping and avoid any sweets to get a good night's sleep. Getting adequate sleep is incredibly vital to our mental health and physical well-being. Sleeping can either improve or deteriorate our health, the choice is up to us.

Vartika Taneja, 8G

## SIR ISAAC NEWTON

Sir Isaac Newton was his name.  
Observing objects was his game.  
He invented the Law of Gravity  
He tracked the planets and proved their positions  
to be a constant reality.  
He made a model of a windmill that he saw.  
Whatever is in motion,  
we know it's guided by Newton's Law.  
Humble and wise, indeed a great man,  
Newton faced many problems  
from which he never ran  
Science is fun in every way.  
It's something that lights up our day.  
Pushing or pulling, thrust or force,  
Weight and mass..all Physics, of course!  
You can actually find science everywhere;  
Wind and fire, or even a desk and chair.  
My tribute to other legends of science.  
Galileo, Bose and the great Einstein!

Kislay Krishna Singh, 7D

## SCIENCE-A BOON

Everywhere computers, tabs and robots you see?  
They are found in nearly every industry.  
These things have now, utmost importance.  
Our life is difficult in their absence.  
Technology is like a helping hand  
It makes our work as simple as ABC.  
In this pandemic we study,  
Our parents work was not steady,  
Just because for everything  
artificial intelligence is ready.  
It does all the work flawlessly  
Artificial Intelligence is like a boon.  
But a boon by whom?  
A boon by science.  
Science had made it all possible,  
Because of science it has been never that horrible.  
It's always there when we are in need.  
A friend like science is a friend indeed.

Samridhi Maurya, 7B

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## THE MAGIC AND IMPORTANCE OF SCIENCE

Science has a vast use encompassing all fields of human life. It plays a great role in making our lives easier. It provides concrete and full-proof answers to all the inquisitiveness that arises from our interactions in daily life. It gives wings to our imaginations through its facts and theories. Science not only focuses on the natural or physical world but also strives to deal with supernatural and metaphysical explanations. Scientists work in different ways and science relies on testing ideas by figuring out expectations that are generated by any idea. The next crucial step being making observations to find out whether those expectations hold true. The goal of science is to understand the natural world through systematic study. Scientific knowledge is based on evidence and logic. Scientists gain knowledge through scientific investigations.

Science is not a subject that stops, no one person will ever know everything about science. As our understanding of life and the the universe deepens, we realise that there is even more we don't understand. The scope therefore becomes limitless; infinity. This unlimited potential is what makes science and alluring enigma and that's why many people find science so amazing.

Science is a way of learning about what the natural world is composed of and how the natural world works. I conclude with a quote I truly believe in: "The science of today is the technology of tomorrow". The saddest aspect of life right now is that science gathers knowledge faster than society gathers wisdom. In all science, error precedes the truth, and it is better it should go first than last. Science is a way of life."

Anwasha Mishra, 7A

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# THE WORLD CONTINUES TO GROW

If you look closer, you'll see,  
A whole new universe existing unchained and free.  
Go deeper and you shall discover more,  
Uncountable atoms you'll get to explore.  
The world continues to grow,  
With this scientific glow.  
Gaze deep into the velvety sky at night,  
Can you see the other worlds hidden in the starlight?  
The discovery of the black hole,  
Whose pull we can't control.  
A shadow which never leaves us alone,  
Which now isn't left unknown.  
The delicate blossoms that bloom,  
Its beauty by which our faces illumine.  
As I dive deeper into this realm of explanation,  
I fly away in the sky with my keen observation.  
Our benefit from science is all we care,  
Ignoring its beauty; is that really fair?  
Without science, our lovely world will fade,  
Complete obeisance to technology must be delayed.  
Understand the great significance of science,  
It can bloom with our wholehearted compliance.

Swarnima Upadhyay, 7C

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## “CELEBRATING SCIENCE”

Scientific developments have changed the life of humanity many folds ever since we have begun to value mankind. Moving a step forward, it would be wise to link it further with technology, a shoot up of the mother word “**Science**”. Science is not only limited to inventions, discoveries alone but also has an unlimited potential of exploration. Can anybody claim to have acquired understanding of this field in a percentile?

Further, there has been an advancement in the study of various forms of science, be it natural sciences, computer and information sciences, chemical sciences, biological sciences to the modern forms like engineering and technology, medical and health sciences, humanities to name a few.

With inventions and discoveries, there has been a continuous never-ending uplift in the social life of mankind. Examples need not be highlighted, for all around us, are countless numbers.

I would like to draw the readers' attention to a specific field of science that we know as 'Cosmic Sciences'. Is there a life beyond planet Earth? Can galaxies be defined with boundaries? Can forms of energy in space be scientifically propositioned? These can never be quantified, though there has been significant advancement in this space. Let's look at Cosmic energy for instance. Cosmic energy, a wing of science is present in cosmos, between galaxies, molecules sent into space.

Dr. Vikram Sarabhai, an eminent Indian scientist has made a vital contribution in advancement of Cosmic sciences. Through Vedic ages, cosmic energy meditation has been an area of vast potential and this still remains to uncover. We have unlimited understanding as to how Cosmic energy meditation has the power to transform our lives in a positive way.

While we share and celebrate the power of unfolding scientific innovations, we further know of its scope of progressive aspects to mankind science has to offer. Sky is the only limit as the possibilities are so vast that it is beyond our imagination. What people could only dream of, has become a reality, thanks to Science and Technology.

Shardul, 8D

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# NECESSITY IS THE MOTHER OF INVENTION

Science can be defined as the study of the physical and natural world around us in a systematic and practical way. Science has completely changed the way of our lives. We have moved from horseback to fuel injected horse power, from gaslights to sodium vapour street lights, from crystal radios to LED televisions, etc. All the enthralling and useful things that we have come across are results of science. The different fields of science like optics and acoustics have led to the discovery of numerous devices like television and headphones respectively. Advancements in the field of anatomy have brought about the modern chemistry structure.

“Necessity is the mother of invention.”

Now, that the necessities of mankind had increased, so had to be the inventions. New technologies, never seen before, started to come out. The means of mass communication have developed significantly. There was a time when only letters were used. But gradually, we invented telephones, telegrams, emails and now we have the present day smart phones. Plenty of communication websites like WhatsApp, Facebook, Instagram, etc are out there. Earlier we had the pinhole cameras and now we have moved on to smart phone cameras and DSLR's.

In the 20th Century, the Wright Brothers had provided the Wright Flyer, which was the base of the most significant means of transportation today – Airplanes. Today, we have extremely efficient airplanes that can carry people and goods to different places. The 20th Century was also an important era in the development of computers. The first computer was ENIAC and gradually we moved on to more compact, durable and smarter computers today. They are also useful in predicting weather, calculating big results and other important activities for space missions.

Advancements in medical sciences have significantly increased the lifespan of people. The once dominant, noble and fearful diseases and viruses that caused mass spread horror and mortality, are now curable to a great extent. Discovery of vaccines of different viruses, discovery of penicillin and numerous allergens have saved lives of millions. The once fearful diseases are curable to a great extent.

However, Science also has negative impacts on the world. The development of medicines and vaccines saved millions of lives but development of nuclear bombs eradicated millions. As more and more things are being invented, there are numerous factories being set-up for their production. These factories not only release harmful gases that pollute the air but also numerous pollutants that affect the water-bodies and cause damage to the marine life. “On the positive side, all the damages done by science can be restored by the proper use of science. Looking at how mankind has flourished in the past decade due to science, we can definitely say that the future is extremely bright and full of opportunities. Scientific knowledge should not be kept confined to particular country as it does not have any nationality. Instead, it is a torch that illuminates the world. Science is an important gift to humans and should not be wasted by making lives difficult for us. Hence, we should think of more practical and appropriate ways of using science.

The science of today is the technology of tomorrow”.

Devansh Singh, 8D

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# EVERYTHING REVOLVES AROUND SCIENCE

From the Big Bang to our daily activities, everything revolves around science. The blessing of science is everything that fills our life with all the comforts that were unimaginable even a few years ago. Electricity, internet, automated machines, etc. Everything is because of the development of science and has successfully made our lives easier.

Since the first discovery by humankind, discovery of fire, science has taken a revolutionary turn. Things like motor cars and airplanes exist today, which once humans didn't even think were possible. In the past, the society had superstitious beliefs and irrational thinking. This was because people had not yet cultivated a scientific temperament. When India had attained sovereignty, majority of the masses was illiterate and their thinking was illogical.

Eventually, people started to cultivate a mindset of rational thinking and began the investigation of truth. This is how we remove superstitious beliefs and attain a logical bent of mind. Due to this, in 1963, India launched its first ever rocket. Six years later it led to the formation of I.S.R.O. With this, the foundation of scientific advancements in India was laid.

Since then, the advancements in science made our lives easy and more comfortable. The most remarkable aspect of these advancements is the evolution of medical science and research. Cures of various deadly diseases have been formed like development of the polio vaccine. The span of human life has increased compared to the past and this is made possible only due to these miracles.

Today, the medical technology is reaching new heights of advancements. Science has also opened channels of communication, electronic devices such as smartphones, computers and internet has globalized and connected us seamlessly. It helps us to Communicate with people all around the world. Every electronic devices today, work using internet, like traffic lights, hospital equipment and even airplanes. Internet has become an extremely important feature in our lives. Prosthetic implants are a miracle in this age, where a lot of accidents or disasters take place. The people who have unfortunately lost a limb in these accidents are able to get a second chance with the help of these implants. Some of these implants also use the internet to function properly. With the help of science, humans have succeeded in stepping on the moon, a milestone among all explorations ever done. The I.S.S. has been set up in space where scientists conduct research about space and its components. On July 20th, 2021, the eccentric billionaire Jeff Bezos also took a space trip in his Blue Origin's New shepherd rocket.

Notable inventions like the metro, electric cars and highly advanced space ships are just the start of a new era of scientific development. However, mankind still has to go a long way to go. The human mind is brilliant, and by using it we can do wonders.

We should realize the blessings that science has provided us and we should be grateful to all the scientists and people who contributed to making our lives comfortable .

Partha Sarathi, 8D

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## **BENEATH THE BEAUTIFUL OCEANS, EXIST MANY THINGS AND REASONS.....**

Deep in the water exist the most beautiful ecosystems and organisms. Just imagine those fishes, seahorses, corals, fossils and small creatures moving all around in water. The study of the physical, chemical and biological features of the ocean is called Oceanography.

Few years ago, I went to Seychelles for a vacation. I remember that the water of the Anse source d'Argent on the island La Digue was so clear that you could see everything going on inside the water but there was a man who, instead of looking at the ocean from the glass panels placed at the bottom of the boat, was diving into it. After getting off the vessel, my family and I went back to the lodge. There I met him again, at the reception and instantly remembered who he was.

I went to ask him why he was diving into the ocean, where he would be prone to risk, even though everything was visible clearly from above. He then said that his name was Ryan Gold and he was a diver. He had come there for exploring the marine life present there. Since we had a stay of 3 weeks in Seychelles, I decided to know more about him as his work seemed fascinating. Every day he used to tell me something new about his work. He was an oceanographer.

On the last day when we were together, he told me the story of why and how he became an oceanographer even though he had aquaphobia. He told me that he was very young when he developed aquaphobia. Once on his birthday, he requested his parents to take him for scuba

diving. They agreed and the family went to the Blue Grotto in Florida for the secret cave diving but alas! his mother got stuck in the cave due to some tectonic movements and died.

Since then he had developed aquaphobia but he overcame this fear with a lot of effort and after 8 years of staying away from water, he decided to start diving again to find the reason behind the tectonic movements in the caves.

He officially became a diver at the age of 26 and started studying Oceanography. He started from the blue Grotto cave and then went on to open caves and deep water diving. He not only fulfilled his mother's dream but also overcame the fear which he had developed because of an accident. He now had knowledge about every tectonic movement under water and was well aware about marine life.

He always said that the ocean is like an account where everybody withdraws but nobody makes a deposit. This is what is happening because of overfishing and there is increased pressure on these resources.

He, on that day, had opened his heart out to me because he saw in my eyes a burning desire to learn about his profession.

He was a person who had overcome all his fears to know the reason behind everything which was hidden deep under those beautiful waves.

I was highly impressed with his grit and determination and realized that he was a true fighter because he had fought against his own fears thus emerging a shining star.

I brought my favourite white shirt and took his autograph on it. His autograph always reminds me that no matter how big a fear is, it is not invincible. I now have a reason to believe that every existence in this mortal world has a scientific basis and none of our fears are beyond our control. We should try to control them before they overpower us. This is the true essence of a meaningful life.

Avni Singh, 8B

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# THE MYRIAD HUES OF SCIENCE

Over the centuries, there has been a substantial enhancement in scientific methods and rational thinking. We often hear our parents or grandparents watch over our speed on the cellphones or tabs saying, "In our times there was nothing like this".

Yes, technology and Science have progressed by leaps and bounds. Today, most of us can pay the bills online, we can microwave a ready-to-eat meal in no time, we can shop online and the delivery boy delivers it at our doorstep. All of us need people to care about us, hobbies to nurture us and an Instagram following which we crave for especially. Nobody is immune. So, Science in many ways has doubled our productivity and taught us multi-tasking at home and in school. We are on zoom trying to make the most of our screen time. We access online resources and at the click of a mouse are led into an ocean of information.

It is therefore imperative to understand that when technology gets upgraded, so do we, as we row our boats, celebrating Science and technology.

Sometimes, we do feel frustrated, tired, anxious because our brains stop working but there is Science which helps us collaborate with our classmates, teachers and friends all over the world. It

has been there to fill up the gaps in our educational and professional transition during the unprecedented lockdown and continues to add brighter hues to our lives.

Gzifa Sarang, 8B

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## GRATITUDE TO SCIENCE

**"The intelligent use of science and technology are the tools with which to achieve a new direction."**

**-Jacque Fresco.** Science is not just a subject, or rather it is the whole cosmos. It is an intellectual, systematic and precise study. There is science even in the smallest particulate matter. It has led humans to discover the mystical phenomena and wonders of the universe. It provides us comfort and efficiency, which we often overlook. Science, many a times, is reckoned as detrimental but it is undeniable that science is a boon to mankind.

It has given us plenty of reasons to be grateful to it. Human beings have come a long way with the advancement of science and technology. The contributions of several great scientists in the field of science laid the foundation of modern technology. Guglielmo Marconi's invention of wireless telegraph had inspired people to invent other wireless devices like smartphones and laptops. This helps people to stay connected to their dear ones around the world. The invention of the wheel remains one of the greatest inventions by humankind till date. Not to mention Thomas Alva Edison's invention of the light bulb which added light to our world. From using clay ovens for cooking purposes to using standardized microwaves, science has progressed a lot. With the advancement of science in geology, scientists are able to detect the disasters prior to their occurrence, which has resulted in the decrease in mortality rate. With the knowledge of science, researchers have been successful in preparing medicines, capable of curing diseases. In the present scenario of the COVID-stricken world, science has solved several problems faced by us. The education of students was left unhindered because of the virtual classes. People could work from the comfort and safety of their homes in the wake of science.

As one tries to pen down the gifts of science, one falls short of words because science has given us what can't be expressed in words. It is undoubtedly a boon to humankind without which the world would be totally different from what it is today. A world without science is like a room full of darkness.

**"Science is a beautiful gift to humanity; we should not distort it." -Dr. AP.J Abdul Kalam.**

Renie Rastogi, 7D

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## JOURNEY OF SIR ISAAC

Sitting in the shade of a tree, Idle and free,  
Suddenly fell an apple, From that tree.  
He got an idea and  
Screamed, Gravit! Gravity! , Gravity!,  
That made him remarkable for his ingenuity,  
Sundial, water clock , windmill,  
Are all the results of this curiosity.  
He wondered about stars and planets,  
By researching on laws,  
he showed his capability,  
He wondered about the reality of  
these planets and stars,  
And got the title of knighthood for  
his sincerity and ingenuity.

Saanvi Tandon, 7D

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## SPACESHIP

One day I woke up early in the morning due to a deafening noise. I was unaware of how such a din could be made. I went downstairs and noticed that no one else was hearing that sound. So, I went to check what was happening. Just as I opened the front door, I saw an unbelievable, unreal site. What I had just seen was a highly technically advanced spaceship stationed in my garden. Standing beside the space ship, were three green-coloured figures with antennae over their heads. They gazed at me.

I shook with fear but didn't dare to move. One of them came towards me and said, "Hi! I am Ani. I have come from Mars; our spaceship has been stuck over here. Can you please help us?" I thought for a few moment and agreed on the condition that they would take me to their planet. They had no choice but to agree. Being a mechanical engineer, I was confident that the task would be a piece of cake for me. But when I opened up the circuits to identify the problem, I saw that their technology was way too advanced for me to understand. However, after a long struggle of about 2-3 hours, I did it. As per the promise, they had to take me to their planet. As soon as I entered the ship, I became over curious. Ani started the space ship and within a few seconds we were in space.

Throughout the journey, I kept on interrogating Ani about their world, about their science and also about the universe. He also continued to answer in details. After a healthy discussion, I saw that now the stars were so close that their shine almost blinded me. Suddenly, I saw a large sphere. As we moved on, I saw the planet Mars. Then appeared a town, a large, scientific and hi-tech town. These creatures were far more advanced than we, humans and they had also invented things which we humans cannot imagine. There were flying cars, high-tech robots, time machines, teleportation machines etc. Buildings seemed to be double the size of the Burj Khalifa. I was absolutely dumb in front of such creations. I had never even dreamt of such wonders in the field of science. The very next moment, I saw everything blur around. I was brought to reality, back to my own world with a thud.. It may have been real or just a dream with open eyes but I still wonder about that far-fetched scientific world.

Naman Kumar, 7G

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## MY SMARTPHONE, MY LIFE

What kind of thing is it?  
Earlier it was snatched away,  
Now to gain knowledge it is the only way!  
My Smartphone, my life.  
I could say no to this,  
But I couldn't resist it.  
People say it makes life dreadful,  
But it's actually very helpful.  
Though I never forget  
That it strains our eyes immensely,  
And we get addicted,  
Forgetting the fun and frolic of the rain dance.  
I now conclude, My Smartphone  
can't be fully my life,  
I must take control Of this  
handle of life's long drive.

Devyani Maheshwari, 6C

## VERSATILE SCIENCE

Science is magic, science is beauty,  
Science is everything that we see.  
For me, it's the best spy,  
As it has discovered where all the planets lie.  
It provides medicines when we are in need,  
It is like our mother indeed.  
It serves as a protector day and night,  
And it even supplies weapons to fight.  
It conveys messages from one to another,  
Or should I say that it is itself a messenger?  
Science is indeed very versatile,  
So, I would like to thank it with a big smile.

Shivakshi Agarwal, 7D

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## SCIENCE IS UBIQUITOUS

What is Science? Science is not just a subject consisting of Physics, Chemistry and Biology. It is a way to answer questions. It is a way of understanding the natural world around us. It involves experiments, observations and trials which do fail sometimes, but even then it provides possible answers.

Science is ubiquitous, you'll find it everywhere. From your car to a flower, to the food you eat. Everything we see around us in our day-to-day life, is somewhere or the other related to science. The rituals that we perform in our religious festivals, have a scientific impact. Like the Visarjan of Lord Ganesha in the waters, it leaves particles of the idol in the river. The growing of our favourite red flower in large numbers in our garden is possible by the scientific process of pollination. The cooking of food in a steel vessel is also scientific. So science is all around us, in the laboratory and in our own house.

We have studied about many famous and ingenious scientists who gave our generation and the world different scientific theories and laws. Should we not take it forward? Should we not be thankful to them? Yes we should! We should be thankful to them for explaining such complex theories. We should take interest in science. By taking interest in science, maybe one day, we can dream of becoming famous scientists and coming up with theories for the next generation. Our names would also be etched in the pages of history as these wonderful scientists. But for all of that, first we need to value science, not as a subject but as an extraordinary way of seeing the world. We need to celebrate science and pay tribute to these innovative scientists. They would be delighted to see their future generation walk on their path, takes interest in science, and studies their laws.

Science is very simple. It can be celebrated by just modifying our thinking. We just need to observe the world and see it in a different way. Our mind needs to be innovative and release creative ideas. Science is not a very complex thing. It is something we encounter everyday. As Albert Einstein once said- "The whole of science is nothing more than a refinement of everyday thinking."

Misha Singh, 7F

☆☆☆☆☆

# ENERGY

Energy is everywhere and helps us survive. Energy makes life fun and keeps us alive. The sun gives us energy with its bright light.

Solar panels store energy to help us see at night.

Potential energy is stored in a stretched out rubber band. Kinetic energy moves, like a rock rolling in sand.

Energy gives us heat and helps our bodies move. Our bodies store energy and we get it from our food. Energy can move in waves by water or by sound.

Electricity is energy. Energy is all around.

Aryaman Kushwaha, 5E

☆☆☆☆☆

## SCIENCE IS COMMENDABLE

Science provides us with a number of privileges and opportunities to explore the world. The revolving of the earth around the sun and the falling of an object downwards due to gravity has all been discovered by scientists from all over the world. Science plays a very important role for the progress and development of the entire world.

Communication satellites, automobiles and computers are a few scientific inventions that have transformed human life. Due to the development and progress of science our world is not the same as it was earlier.

Science is indeed a great service to mankind without which the world cannot survive for long.

Science has provided us with a number of machines that has made our lives comfortable and reduced human effort. It is hard and quite impossible to imagine life without science. We can say that our existence completely depends upon science.

Several years ago, people used to walk long distances to travel from one place to the other. However, the invention of transport systems like cars, buses, trains, airplanes and in the case of water transport, the ships and boats have made travelling and communication much easier. Therefore, the contribution of different scientists in the field of science is commendable and we should always remain grateful to them.

Rudraksh Singh, 5E

☆☆☆☆☆

## SOLAR ENERGY

Solar power is energy derived from the sun that is subsequently converted into thermal or electrical energy. Solar Energy is the cleanest and most abundant renewable source available, and the U.S. has some of the richest solar resources in the world.

There are three main ways to harness solar energy: photovoltaic cells, solar heating and cooling and concentrating solar power. Photovoltaic cells generate electricity directly from sunlight via an electricity process and can be used to power anything from small electronic gadgets such as calculators and road signs up to homes and large commercial areas. Solar heating, cooling and concentrating solar power application bath use the heat generated by the sun to provide space or water heating in the case of S.H.C. system.

Solar technologies can harness this energy for a variety of uses, including generating electricity, providing light or a comfortable interior environment and heating water for domestic, commercial, or industrial use.

Jayansh Dubey, 5E

☆☆☆☆☆

# SCIENCE IS EVERYWHERE

## Science, Science, Science

Yes! Science is everywhere and part of our lives, Just give wings to your imaginary vibes.

When I look into the sky, ask the question why?

Sun rises in the morning and moon shines in the night... what makes stars so bright? Behind day and night is there any hidden Science... Yes! It's an astronomical thing, right?

When I look into the mirror, I see myself looking back at me, Isn't so horrible? -I can see my mimics, No, No, No!... It's the science of Physics.

When I see a beautiful flower, I stand amazed to think, Who gives such lovely hue?

Is there any science behind every blossom? Yes! It's Biology... Oh! that's so awesome.

When I see a drop of water looking like a single pearl,

It rolls on the surface without breaking apart... What is that who is making them so smart? Must be some mystery... No, No, No... It's Chemistry..... what an art?

Avni Gupta, 5B

☆☆☆☆

## WHAT IS PHYSICS?

The nature around us is vast, colourful and mysterious containing large varieties of phenomena. The winds, sands, waters, rainbow..... there are a large number of objects and events taking place around us.

Physics is the study of nature and its laws, we comprehend that everything around us happens because of some laws, discovered or undiscovered. We can explain the falling of an apple or formation of tides with physics.

The great physicist Dr R. P. Feynman has given a wonderful description of what is understanding the nature.

Think that we do not know the rules of chess but we are watching a game. If we watch the game for a long time, we may figure out few of the rules. If we watch partially we may make wrong rules which may be proved wrong and we will go on making new rules.

Physics is just the same. The Nature is a big game of chess that is being played. The events are the mysterious moves of the game. We all watch it and guess the basic rules according to which events take place. We may come across new events and have to declare old rules wrong. As physics is the study of nature it is real. We can only discover rules, not frame them. Aryabhata, Newton or Einstein were great scientists but everyday a new phenomenon may occur proving the rules wrong and they would have to be changed accordingly.

We conclude that physics is the study of nature and its rules can be discovered not framed. We can explain any phenomena with the help of a law. Therefore, we can say,

**“PHYSICS IS THE FINAL LOGIC OF ALL SCIENCES.”**

Tarun Tej Kumar, 5G

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## ENERGY CONSERVATION

Energy conservation is reducing the energy consumption by using less of an energy service. It can be easily done by using the energy source in lesser quantity. We can also conserve it by using the energy in an efficient way. Energy conservation is really needed today to preserve our future.

Fossil fuels like petroleum and coal, some metals like gold and iron are minimum on Earth. So it becomes our moral duty to conserve and preserve it because there is a big risk of expending of these non-renewable resources. All the non-renewable resources may come to an end soon with how we people are using it carelessly. We demand for these resources more than the supply we have and hence it becomes necessary to conserve it and utilize it wisely until its other source is discovered.

Fossil fuels give out a lot of carbon dioxide, harming our environment. These fuels contribute in Global Warming too. That is why energy conservation is required to reduce the effect of Global Warming. Now, some

activities like coal mining, etc have caused deforestation. It also affected the flora and fauna of that region in a negative way. These activities lead to Air Pollution. Conserving Energy is the solution to all these problems. The energy resources are very few on this planet but the consumers are many. In every way we should try to save energy regularly. Our duty as a citizen of this whole society is to protect and preserve these energy resources for the future generation.  
Energy conservation is the True Solution

Abhivyakti Shukla, 5E

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## SCIENCE IS A BLESSING TO MANKIND

Science is a blessing to mankind. Without Science, the existence of mankind on Earth would have been impossible.

Science has three branches-Physics, Chemistry and Biology. Scientists have discovered the amazing covid vaccine by which we are able to fight this horrifying, deadly virus. Sans Science, the world would have been like food without water as there is a scientific explanation to everything on the planet, through which many mysteries have been explained. All the simple and complex machines we use are related to Science only which makes our work easier, faster. Scientists have been able to find solutions to many diseases and have defeated them. 'A friend in need is a friend indeed.' This proverb is apt for Science as it helps us in every step of our life. Without Science we would not be what we are today.

We should be grateful to Science for being a true friend and support to mankind. We should also be grateful to its amazing and unique and extraordinary contributions to the society.

Mayank Mani Tripathi, 5G

☆☆☆☆

## THE BIG BANG

Was there something before the time was born?  
Not a single leaf or thorn.  
The Earth in which we live today, was a big ball of fire,  
But this is the place which we all admire.  
The Earth was now changing with a hint of life,  
A peaceful place with no noise or strife.  
All of this was in a point exploded as big bang,  
Which is how the universe had begun.

Mariyam Naaz, 5C

☆☆☆☆

## SCIENCE AND SUPERSTITION (PLAY)

Cast : Narrator Arshiya Madam Rose Mum Grandma

### Scene 1

Narrator : Arshiya is in her school . The science class is going to begin. Madam Rose is going to have some discussion.

Madam Rose : Good morning students. Today I am going to give you a topic to think on. Though the topic may appear difficult, it is very interesting.

Narrator : Students suddenly seem to be interested with excitement on their faces.

Madam Rose : Your topic is 'Science and superstition' . Contradictory ideas but they do co-exist. This is a genuine topic which will not only enhance your knowledge of science but also change the way of thinking for some of you. I think you all would be thrilled after getting this topic to to research

on. So you may do your research and be ready by Saturday.

### Scene 2

Narrator : Arshiya is in her home. She wants to talk to grandma.

Arshiya : Hey Grandma ! Can I talk to you for a while ?

Grandma : Yes dear, I would like to converse with you .

Arshiya : I want to ask you whether you believe in superstitions.

Grandma : Sometimes, yes because this is what I've learned from my elders. There is a superstition that one should never cut nails on Thursdays and Saturdays. I follow that for that's what my mother has taught me.

Arshiya : Ok thanks, Grandma.

### Scene 3

Narrator : At that night , Arshiya went to mum.

Arshiya : Mum , can you tell me anything about Science and superstition.

Mum : Sure, But why??

Arshiya : It's our homework to research on this topic .

Mum : Ok. Long ago some elderly people used to entertain superstitions. You must be knowing a famous one that one should not cut nails at night , else it goes in the eye of God. All this is because of some reason.

In the olden days, when there was no light, if someone cut their nails, he could get hurt. Such superstition was spread to prevent people from getting hurt.

Arshiya : Oh ! Mom please tell one more superstition .

Mum : People say there are ghosts and spirits around a pipal tree. I believe it has many healing powers and gives oxygen in large quantity. So might be, someone who cared for it , spread this rumour to dissuade people from cutting trees.

Arshiya : Interesting! What about science, mum?

Mum : See , these superstitions that I told you about had some scientific behind them.

Arshiya : Ok , I have understood . Both these phrases are opposite but are also complimentary to each other.

### Scene 4

Narrator : The world was brimming with life , the birds were chirping and everything was pleasant. Arshiya gently opened her eyes, she could see herself in bed.

Arshiya : This all was a dream !! I remember that I had watched a show based on superstitions till late night yesterday. I don't remember what mum expressly said in the dream or I would have told it to my friends too.

Narrator : Arshiya then woke up from bed and went to get ready for school .

The end

Shrishti Singh, 5B

### NATURE

Nature, o nature  
So beautiful you are !  
Spread smile everyday.  
So peaceful you are!  
A corner for me,  
Where I express my feelings  
A friend for me  
Who never speaks but  
understands each thing I speak.  
Nature, O Nature!  
So useful you are!

Ishta Tandon, 5A

☆☆☆☆☆

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## SCIENCE HAS ANSWERS TO EVERYTHING

Science explains everything  
from birth to global warming  
And why is the sun the source of life  
also why be careful while using a knife.  
It teaches us about the human body,  
And how germs get destroyed by antibodies.  
Doctors try hard to get rid of cancer  
they do experiments to get the answers.  
From your mom's car to the kitchen appliance,  
Everything is concretely backed by Science.  
Science makes everything clear so enjoy it my dear

Aaliya Bansal, 5C

☆☆☆☆☆

## WE ALWAYS WANTED WINGS TO FLY

We always wanted wings to fly,  
So Wright Brothers invented aeroplane,  
That could fly high in the sky...  
Albert Einstein invented Gas  
Absorption Heat Pump,  
Although he was told it was worthy of a dump.  
I salute him for his courage and hope,  
Do you know the Babylonians brought up  
the idea of making soap?  
Without books and newspapers our life was a mess,  
Thanks to Johannes Gutenberg for  
giving us the printing press...  
Food in darkness was difficult to gulp,  
But soon Thomas Alva Edison brought  
the solution called Bulb...  
The wait was over and we could hear ringtone,  
When Graham Bell made a call and  
gave us telephone...  
Martin Cooper made the  
telephone wires and poles free,  
When he invented mobile phone  
in seventy three...  
There are many more who made us amaze,  
Showed the torch and took us out of haze....

Pramiti Srivastava, 5G

☆☆☆☆☆

## INSPIRING SCIENCE

Science is something,  
Through which we can do anything.  
Many scientists reached the Pinnacle of success,  
By using hardworking as a process.  
Scientists like Einstein and Newton,  
were the inspirations who had no confusion.  
They never gave up, but they did stand,  
And taught us to never let go one's hand.  
To get the great success card,  
They told us to really work hard.

Aditya Rastogi, 5C

## IT'S ALL ABOUT SCIENCE

Everywhere Science  
Walking every step,  
I feel like muscles working up.  
Vibing to some music,  
noise and sound coming up,  
Boom! Boom! Boom! A blast happened.  
But that is not my experiment's end.  
Soon came noon  
Shadows getting shorter  
My height getting taller, Soon I realised,  
It is all about science.  
In each step and every move,  
Let us celebrate science And end this rhyme.

Samriddhi Dixit, 5A

# SCIENCE

Science has played a major role in the development of our society. It has brought about several changes in our lives. Transportation is easier now with the help of science. Science upgraded steam engines to electric engines. In earlier times, people were riding on cycles but now everybody prefers motor cars. This saves time and effort. This is all possible with the help of science. Science made us reach to the moon but we never stopped there. It also gave us a glance at Mars. This is one of the greatest achievements science has achieved. These days scientists make money satellites which provide us network. Science as a subject is also very important as from class 1 we start it. Science taught us about living and non-living things, solar system, early human age, about plants and animals and also many other important things. Finally, many scientists like Thomas Edison, Sir Issac Newton were great inventors. In India, Scientists like A.P.J. Abdul contributed much towards our space research and defence forces. He made many advanced missiles. These scientists did great work and we will always be grateful to them.

Shreyas Pathak, 5A

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## UNRAVELLING THE SCIENCE BEHIND SUPERHEROES

Science is a beautiful and diverse topic that influences each and every aspect of our daily lives - from entertaining superheroes in the television to cooking food in microwave. Science plays a vital role in the development of our planet and our day to day survival. Without science the world would be so much underdeveloped that it couldn't even afford food for its vast 7.8 billion population. The absolute sources of entertainment for all ages are superheroes. Would you believe that more than half of the superheroes have science hidden behind their concepts! When we think about superheroes related to science, the first one that comes to our mind is Marvel's Iron Man. In fact, he is just an ordinary person with an extraordinary mind and no physical superpower. We see him flying around in his nifty suit next to some military jets. There are little rocket flames coming out of the bottoms of his shoes, apparently providing the necessary thrust. His suit is fuelled by nuclear fusion where radioactive elements are subjected to fusion to release 8 gigajoules of energy per second, which is ample enough to fuel his suit. In the real world, just like Iron Man, many other prototypes have been created, that can fly and perform most of the tasks the cinematic Iron Man would do. Exoskeletons are outer suits that are making the headlines these days. They are designed for military purposes and have battle reflexes. Batman, deemed as a powerful superhero doesn't actually have any superpowers. He is just a skilled crime fighter with a lot of scientific technical support. Superman is the one who triggered the superheroes of the cinematic universe to be made. He is supposedly the god of superheroes. But the question arises, how does he fly and hovers in the sky? According to physics, he must need two forces to stay up there. One is gravity and the other force that should balance gravity is most probably an air force from his skin pores that helps to keep him up in the sky. The powers of Captain America's shield is best unravelled with scientific explanations. Vibranium, the fictional metal used, has a tensile strength of 1900 mPa (Megapascal, a unit of pressure) and is deemed to be unbreakable under most of the circumstances whereas in real life there are elements such as titanium and tungsten whose tensile strength can vary from 240 mPa to 1400 mPa. High grade alloys of titanium have a tensile strength up to 1400 mPa. Science is a wonder so diverse, that we find everywhere. It is truly said by Isaac Asimov, "There is a single light of science, and to brighten it anywhere is to brighten it everywhere."

Kavish Dua, 7A

☆☆☆☆☆

## TIME MACHINE

Don't you think, you can go back to olden days?  
Well! It is possible by machine  
made by help of science.  
I missed my olden days,  
But science has given me many ways.  
Invention of Time machine,  
Not only permits us, To travel in the past  
But also our trip into future in advance.  
Doreamon cartoon has officially told us  
the meaning of Time machine.  
The invention of Time machine is yet to be seen.  
Science has given us many things  
like, Bulbs, electricity, vaccine.  
One day I'm sure our generation,  
Will get to see a gigantic time machine.  
With the help of science everything is possible,  
And science from the life of  
human beings is irreplaceable.

Falak Verma, 5A

☆☆☆☆☆

## TURNING FANTASIES INTO REALITIES

Hey Science! Wan to hang out?

You're the topic we're talking about. Space,  
Universe and Galaxies,  
Turning fantasies into realities  
The computer today we're working on;  
Without you it would have been a con.  
Riding a car and flying on a plane  
without you we would only have  
an animal to tame.  
You really have no clue  
That we're nothing without you,  
Thank you for your help  
So may God bless you!

Medhansh Mishra, 6A

## IS CURIOSITY ALSO THE MOTHER OF INVENTION ?

Science is an organized set of questions and answers which aroused the curiosity of great scientists. In our daily life we use many things, unaware of their creators. Science can be used both as a creator and a destruct or. Where, on one hand Alfred Nobel was awarded the Nobel Prize for the Discovery of Dynamite, on the other hand, Albert Einstein was the recipient of the Nobel Prize for the discovery of the law of photoelectric effect. Many people dream of becoming scientists but only some of them actually achieve their ambitions, and inspire us in many ways .They struggle and strive to make our lives easier. As we know, necessity is the mother of all inventions, scientists try to fill up the absence of things which reduce human effort .Well science cannot be and should not be separated from our lives. Our history proves that since ancient times man has followed his curiosity and invented things out of necessity. In early days, men used to live in caves and could not protect themselves from winter but one day someone must have observed that friction produced on rubbing stones creates a spark which can grow into fire. Fire could further help them in protecting themselves from rivals and stay heated. They faced problem in transport so while making tools from stones they would have mistakenly made a circle which was rolling and so it was used as wheels. In today's time also we use home science for cooking and use many things based on theories coined by famous scientists . If we closely observe our present and past times we will notice that every common man is a scientist . We should be grateful to scientists for their inventions which make our lives much easier. They are just like roots of our life and without roots no tree can survive. We should celebrate their successful attempts for making something useful even if they didn't succeed as Thomas Alva Edison said, "I did not fail 10,000 times , I successfully found 10,000 ways that don't work."Edison discovered light which replaced fire for illumination and the same way scientist illuminate our life with their creations.

Rishita Srivastava, 6G

☆☆☆☆☆

# DREAMS

All children in the world aspire to become something in the future, this is usually referred to as a “dream”. All children have dreams about their future, whether it be about teaching, dancing, swimming or baking, The list is one without an end. In this list of dreams there lies one not many can achieve. The field of Science is something not many aspire to contribute in merely because it is difficult, the difficulty itself disinterests many, but as there are two sides to every coin, there are two sides to every aspiring young mind, which doesn't at science as something difficult or a burden, one looks into it as his destiny, his dream. It all happens in a fraction of a second when you know that this, this is what you are meant to do!. Many people struggle to find their dream early on, but know it lurks right in front of you, all you need is patience and time, and you may find yourself already on the path towards what you aspire. Some others that have completely devoted themselves to Science. The journey ahead of them is tricky, and many soon give up, but the ones who nevertheless carry on eventually succeed, contributing greatly to Science, every Scientist has curiosity, wonder and knowledge lurking deep within, they burn the midnight oil to uncover more about the universe, and of course perhaps further beyond, day- by- day we uncover more about everything there is, all thanks to scientists, science and of course, the dream.

Tashi Das, 6G

☆☆☆☆☆

## IF YOU LOOK CLOSER

If you look closer you'll see,  
A whole new universe existing unchained and free.  
Go deeper and you shall discover more,  
Uncountable atoms you'll get to explore.  
The world continues to grow,  
With this scientific glow.  
Gaze deep into the velvety sky at night,  
Can you see the other worlds hidden in the starlight?  
The discovery of the black hole,  
Whose pull we can't control.  
A shadow which never leaves us alone,  
Which now isn't left unknown.  
The delicate blossoms that bloom,  
Its beauty by which our faces illumine.  
As I dive deeper into this realm of explanation,  
I fly away in the sky with my keen observation.  
Our benefit from science is all we care,  
Ignoring its beauty; is that really fair?  
Without science, our lovely world will fade,  
Complete obeisance to technology must be delayed.  
Understand the great significance of science,  
It can bloom with our wholehearted compliance.

Swarnima Upadhyay, 7C

## SCIENCE IS FUTURE

Science is the soul of future,  
It saves not only humans but also nature.  
Tests and experiments are the basis of science,  
To awaken us and our conscience.  
From the discovery of the fire and every tool,  
It led us to the bulbs and LPG fuel.  
From the birds as navigators and messengers,  
We can fly with the GPS and computers.  
From the human cells to solar cells,  
We know all about oceans and the shells.  
Travel became easier with bullock carts,  
But to touch the limits of space  
we invented spacecrafts.  
From the machines of irrigation and farming,  
It warns us to stop global warming.  
It cures our diseases by vaccination,  
And improves communication,  
transportation and medication.  
From the candles to the power plant generators,  
Technology changed us to work better.  
So, science had made our lives happier than ever,  
It saves not only humans but also nature.

Vidushi Singh, 5G

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## SCIENCE HAS EVERYTHING

Science has everything  
It teaches us many things.  
We learn about plants and animals called flora  
and Fauna in Science.  
Science teaches us about the Medical System  
Which Consists of Circulatory and Skeletal Systems,  
And tells us how our Heart Beats and Kidney filters..  
Simple machines like lever and pulley  
Inclined plane, wheel and axle, wedge and screw.  
Are The things which help us to do work easily  
Sound and Noise, Work and Energy  
Light and Shadow, Cleanliness and Hygiene  
Are the Things that I know well  
Science consists of Things which could fit in a Page.  
It almost needs a book to write and  
Tell us about it

Avika Singh, 5D

## MY SMARTPHONE, MY LIFE

What kind of a thing is it?  
Earlier it was snatched away,  
Now to gain knowledge it is the only way!  
My Smartphone, my life.  
I could say no to this,  
But I couldn't resist it.  
People say it makes life dreadful,  
But it's actually very helpful.  
Though I never forget  
That it strains our eyes immensely,  
And we get addicted,  
Forgetting the fun and frolic of the rain dance.  
I now conclude, My Smartphone  
can't be fully my life, I must take control  
Of the steering wheel of life's long drive.

Devyani Maheshwari, 6C

## ALL THINGS ARE INTER-RELATED

Just as the trees take water up  
by osmosis against gravity,  
If we don't brush our teeth,  
we might have a cavity.  
In Chemistry, we need to study  
the atomic structure,  
Similarly as we have to draw its miniature.  
In Physics, we have two poles of a magnet,  
which attract and repel as if it was a fairy spell.  
Once, I met a scientist,  
who is actually a science specialist.  
We met, we sat and we talked about science  
magic, in which everything is based on logic.  
We talked about biology, that involved energy,  
studied photosynthesis of plants,  
which was far better than talkative aunts.  
It was easy to understand molecules and atoms,  
Since their motion is random.  
We chatted about mass and quantity,  
It taught us a lot about every property.  
All these are inter-related, But are never limited.

Anshika Singh, 8C

☆☆☆☆

## POEM ON SCIENCE

In the welkin deep  
the clouds rolled in and out again,  
The haze grew thick and gray.  
Sirius shone bright in the sky,  
and then suddenly faded again.  
The moon as white as wax in the hazy night,  
The stars appeared to glow.  
The dew formed on the eye,  
Disappearing as the wind blew.  
The night was not considered a loss,  
As the storm finally blew to the East.  
The telescopes were pointed high,  
To a site on which all eyes did feast.  
The Milky way appeared in the endless black,  
The World of heaven opened its gates.  
The sky exploded with brilliant light,  
The welkin deep forever fascinates.

Anushka Singh, 7G

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## **FAR FETCHED SCIENTIFIC WORLD**

One day, I woke up early in the morning due to a deafening noise. I was unaware of how such a din could be made. I went downstairs and noticed that no one else was hearing that sound. So, I went to check what was happening. Just as I opened the front door, I came across an unbelievable, unreal sight. What I had just seen was a highly technically advanced spaceship stationed in my garden. Standing beside the space ship, were three green-coloured figures with antennae over their heads. They gazed at me. I shook with fear but didn't dare to move. One of them came towards me and said, "Hi! I am Ani. I have come from Mars; our spaceship has been stuck over here. Can you please help us?" I thought for a few moment and agreed on the condition that they would take me to their planet. They had no choice but to agree. Being a mechanical engineer, I was confident that the task would be a piece of cake for me. But when I opened up the circuits to identify the problem, I saw that their technology was way too advanced for me to understand. However, after a long struggle of about 2-3 hours, I did it. As per the promise, they had to take me to their planet. As soon as I entered the ship, I became over curious. Ani started the space ship and within a few seconds we were in space. Throughout the journey, I kept on interrogating Ani about their world, about their science and also about the universe. He also continued to answer in detail. After a healthy discussion, I saw that now the stars were so close that their brightness almost blinded me. Suddenly, I saw a large sphere. As we moved on, I saw the planet Mars. Then appeared a town, a large, scientific and hi-tech town. These creatures were far more advanced than we humans, and they had also invented things which we humans cannot imagine. They were flying cars, high-tech robots, time machines, teleportation machines etc. Buildings seemed to be double the size of Burj Khalifa. I was absolutely dumb in front of such creations. I had never even dreamt of such wonders in the field of science. The very next moment, I saw everything blur around. I was brought to reality, back to my own world with a thud.. It may have been real or just a dream with open eyes but I still wonder about that far-fetched scientific world.

Naman Kumar, 7G

## **A JOURNEY INTO THE PAST**

The modern life is really stressful. Working people come up with endless troubles each day. They go through emotional stress which is the effect of several responsibilities on their shoulders. At times, we look back to our childhood when we had no reasons to develop anxiety and lived the best moments of our lives.

Mr. Smith was one among the people dealing with stress and mental illness. He was a great scientist and technologist with an inventive and creative mind. Being a great inventor, he had discovered quite a lot of things in various fields. Besides being successful, he still had to face hard times in his life that bothered him every time. "Wish I could return back to the golden old days", murmured Smith to himself.

One fortunate frosty morning in the park, he met a young guy holding an album in his hand, sitting on the bench next to him. He seemed really familiar to Smith. Seconds later he realized, he was his old classmate, James. They chattered for a long time. Something had put a smile on Smith's face after decades! They spoke about their current life and through that Smith realized he was not the only one suffering. Sitting with a frown on his face, James complained, "I wish I could end my life". Hearing this, Smith stood up confused. Those words from his friend bothered him. He walked a few steps ahead and turned around. It seemed as if he had something quirky cooking up in his mind. James sat there curiously staring at him. The very next moment, Smith hurried up running, giving his card in James' hand and suddenly vanished in the cold frost. Nobody knew what was going in his crazy mind.

The next morning, James reached Smith's residence following the address mentioned on the card. As he entered the working area, he could see Smith standing with a broad smile, which was very rare .

Smith moved a bit aside and what James saw next electrified him. The fellow scientist had invented an enormous Time Machine to go back in time. Life was full of surprises but James certainly wasn't expecting this one. This had proved how badly they were missing the old days. Both of them didn't wait for a second and jumped into the time machine and travelled back to their childhood days.

As they reached there, they could see a little boy playing in the garden, with his jacket flapping in the strong wind. Smith was astonished after realizing that he was his younger self. Tears rolled down his cheeks. He came close to him but as soon as he put his hand on the child's shoulder, a deep loud voice yelled from behind- 'WAKE UP! Aren't you getting late for school?' Smith suddenly stood up from his bed, puzzled. He wondered why there were toys lying on the table when he was a scientist? At that moment, he felt like he could hear everything and nothing at the same time. 'What were you dreaming about?', asked his confused mother. Smith gave a dejected and sorrowful look. The fifth grader eagerly explained his dream to his mother but the character of James still remained a mystery. He also expressed his desire to invent a time machine on growing up. His mother not only appreciated his thoughts but also told him that this dream was a hint to enjoy his childhood. Lastly, she also reminded him that he was supposed to focus on his academics in order to become a scientist.

Angel Srivastava, 8C

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## REVOLUTIONIZING DISCOVERIES

With the advancement of time and revolutionizing discoveries, there is almost no aspect of human life that doesn't involve science. We must realize how science is present in every life element so that we can analyse and develop it further.

Science and technology now plays a crucial role in making our lives more comfortable and carefree. Science is also hugely responsible for the development and modernization of our society. Hence, science affects all the dynamic changes occurring in our lives and the surrounding and it is required for us to realise its importance.

From Big Bang to our daily activities, everything involves science. The blessings of science are everything that fills our life with all comforts that were unimaginable even a few years ago.

Electricity, transportation mediums, medical services, telephone, television, internet, electrical devices, and automated machines have all successfully made our lives easier.

The first discovery of fire, we as a human civilization have come a long way with scientific discoveries and inventions. After the fundamental developments like farming, then plant studies later came being aware of the medical values of each. Today the medicine and medical technology are reaching new heights of scientific advancements.

The few inventions like trains, motor cars, aeroplanes, and even cycles are beneficial for transportation to date because they have made travelling more efficient and more accessible. The human mind is brilliant to have developed all these from mere raw materials present in nature to build something more complex and helpful.

Electronic devices such as the computer and internet have globalized and connected us in seamless and fastest way possible. With the moon, a milestone among all the explorations ever done.

Science is an integrated part of our lives from even before we are born, and until after we die, its only that our conscience helps us realise the blessings that science has provided us yet and can do in the future, and we must always teach using science in every excellent and efficient way possible.

Science is one of the crucial aspects of human life. It creates immensely in our ways of life both the natural and social sciences. It's what helps to shape the world we live in, with the ease that we move around in life today. What else can we call Science but a blessing!!

Ananya Srivastava, 8A

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## BREAKING BARRIERS; BUILDING BRIDGES

Science, the vast world of knowledge that fills every aspect of life.  
Though it sometimes gets complex when we don't revise  
Such a tremendous contributor ! applicable in our day-to-day lives.  
'Do not be clumsy during experiments  
Pour carefully', I advice.  
Science: the creator of the universe and the planets,  
'The branches it spreads are uncountable', I must say.  
The logical questions we do have derived from this.  
Easy to grasp 'Just pay attention and study it everyday'.  
Experiments can be performed in this subject.  
'An interesting subject to study', you will also say.  
From the pen one writes till the space ship,  
Science enables us not only to break barriers But also to build bridges.

Shlok Verma, 7G

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## THE HISTORY OF SCIENCE

Humans have been aware of science since the beginning of our species, It has played a huge role in our history and evolution. It was the reason we evolved from cavemen into the functioning society that we are today. Even though the elements of science have been around since even before humans, modern science as we know has only emerged since the 17th century.

Although scientific discoveries like the wheel and fire have been immensely impactful on our civilization, we had the real breakthrough of science in the 17th and 18th centuries with inventions such as the steam train and compound microscopes or discoveries like cell or blood circulation. This era brought about the revolution that was later known as the scientific revolution. This invention affected the human race to a great extent, because of the achievements in the field of biology, life epicentres shot up, trains made transport much easier etc. this revolution paved the way for future discoveries which lead to much more impactful discoveries in the 19th century. The 19th century began with the discovery of the atomic theory by John Dalton which was later proven incorrect but was still counted as a huge milestone in the field of chemistry. This period gave us several findings in the field of science such as steel, the first mentions of the periodic table, the discovery of viruses, the basic foundation of genetics and several others but the most significant discovery of them all was the discovery of radiation in 1896 and radium by Marie curie in 1898.

The discovery of radiation helped us in several fields of science and technology, it helped cure diseases in the biomedical fields, carbon dating in archaeology and space exploration. The 20th century comprised the most radical inventions in the science field since the revolution. Humans evolved drastically in all fields of science. Some of the notable findings from this era were the theory of the big bang in 1927, the discovery of neutrons in 1932, the first model of the DNA in 1953 and the polio vaccine in 1952 which saves thousands of lives every year. All these stages have given us such a strong base for discoveries in the 21st century that we have explored space as recreation in the first two decades and we have lots of scientific inventions that scientists are working on of which we hope to see the results soon.

At the end of the day, Science is a circle, every end is a new beginning, filled with new hopes and opportunities waiting to be turned into facts. We might think that we have reached the peak of human evolution, but we still have a far way to go.

Nandini Sethi, 8A

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## TO MAKE THIS WORLD A BETTER PLACE`

Science deserves a huge applause,  
Science is survival's cause.  
Science knows every atom,  
be it the human, plant or phantom.  
It's not just limited to physics, biology or chemistry,  
it's been a part of life since history.  
Still, science has many unsolved mysteries,  
none can easily solve them and gather victories.  
It's difficult to get the entire knowledge of it,  
You are smart enough, if you know it even a little bit.  
Our body works on biology,  
We know our earth through ecology.  
I found science anywhere my hands pointed,  
because everywhere science has been appointed.  
Science has developed and made a huge difference.  
We have pulled down so many curtains.  
But a long life is still ahead,  
with the hand of science above our heads  
We have to make the world a better place,  
using science in a crime should not be the case.

Nandita Srivastava, 8A

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## COMMEMORATING SCIENCE

Jacque Fresco once said, “The intelligent use of science and technology are the tools with which a new direction can be achieved.”

**Every aspect** of human life involves science. So much time has passed since the incident where hunters and gatherers were once playing with stones, and as two stones struck each other, a **flame of light** was produced. Countless revolutionary advancements have been made helping us make our lives easier and better. Science is **endless**, and it is present in every single life element, which helps us analyse and develop it even further. It is the aspect of science only, due to which **development, globalization, and urbanization** have taken place.

There are **unlimited reasons** for how science can be significant and useful in our day-to-day life! All the **modes of transport**, including cars, bicycles, bikes, buses, airplanes, and trains, are all inventions of science, and today, they help us easily move from one place to another. In the earliest times, travelling to another destination was one of the most difficult tasks. For **cleaning purposes**, we utilise **soaps** which are only made up through different chemical reactions and a combination of various chemicals. The **LPG Gas Cylinders** used in houses and restaurants are made by keeping the gases – **propane and butane at high pressure**, which help us to cook the luscious food we eat. Our **body** is made up of trillions and trillions of cells. These cells, our body structure, the useful organs inside our body all come under the study of biology. The **life span of human beings has increased** severely over the years because of the invention of beneficial **medicines and vaccines**, helping us to cure some of the worst possible diseases. In 1994, some of the first cases were detected of people suffering from **Polio disease**. Within a few years, India had developed the **Polio vaccine**, and in 2011, India was declared a **Polio-free country**.

**Vaccines** are a result of scientific research. They are the ultimate result of **scientific knowledge**. The **whole new world of the internet**, including our online classes, working from home, is only possible due to science and technology. Without it, we would have been suffering heavily during these difficult times. We can **communicate easily with anyone** in any corner of the world. Science has opened the channels of communication. **Weather forecast** can be done through science. Earlier, **natural calamities** like cyclones, tsunamis, floods, tornadoes would kill an enormously large number of people and would have a devastating effect. **Advancements have been made in science and technology**; researchers can easily predict it before the disaster strikes and take correct preventive measures to protect ourselves. So, there are many actual uses of science in our life.

The question is: “**Was everything the same in the ancient times as it is now?**” The answer is **NO**. Society had been ailing from **dangerous evils** such as superstitious beliefs, illiteracy, and poverty in the past. This was because people had **not yet cultivated scientific temperament** in their lives. When India attained a sovereign state, the masses were illiterate, and their thinking was illogical. But a few great people of the society inspired the people to cultivate scientific temperament by **promoting the spirit of inquiry and investigation of truth**. In the 21st century, which is the information era, irrational thoughts are being replaced by the logical bent of mind and rational thinking. People have stopped accepting things blindly and have started to conduct proper scientific research over a particular topic and investigation to find out the real truth. People are **extending their horizons of knowledge** by constantly studying books and researching on the web. Thus, more great inventions are being made!

Therefore, I would like to conclude by saying that science is changing every day, and we all have to work hard so that we can also change the world. This can be achieved by following three basic yet important steps : **experimentation, observation, conclusion**. Even the greatest scientists like Albert Einstein, Isaac Newton and Charles Darwin followed these steps. We need to **speed up our work to do** what we want to. It has rightly been said,

“The science of today will become the technology of tomorrow.”

Yuvraj, 8D

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## REALITY IS AMBIGUOUS

Reality is ambiguous  
Our knowledge is exiguous  
There is still so much left to discover  
Science keeps an eye on them  
like a spy undercover.  
So many new things it found  
Telling us that we are unbound  
In early centuries, many people died  
but now there are medicines worldwide.  
Natural disasters came and went,  
Like a trespasser we all resent.  
But in this century, if they come  
They will surely leave being all glum.  
Even though we have progressed,  
Created theories that are complex  
We have so much yet to know, so much yet to find.  
Then there is science, guiding us towards the light.

The truth lies ahead of us  
And science makes us see it.  
Where does the sun go, when comes dusk?  
What is its secret?  
It is snooping around the whole world,  
Making answers that we have never heard.  
Science is the reason we are here.  
Let's shout its name through the air.

Tulika Bisht, 8D

## GRATITUDE TO SCIENCE

Gratitude, a strong feeling, in simple words is being grateful to someone or something. These all contribute to the feelings of closeness, connection and happiness that come with gratitude. With gratitude, people acknowledge the goodness in their lives. Gratitude helps people feel more positive emotions, relish good experiences, improve their health and deal with adversity.

What really is science? Why do we express gratitude to science? These questions often siege my mind. Science is the study of the nature and behavior of natural things and the knowledge that we obtain from them. There are many different types of Sciences. It depends on what interests you the most. Psychology interests me the most. What is Psychology? Psychology is the study of mind and behavior. It encompasses the biological influences, social pressures, and environmental factors that affect how people think, act and feel.

The four main areas of Psychology are clinical psychology, cognitive psychology, behavioral psychology, humanistic psychology. Clinical Psychology is the study in psychology of mental disorders. In simple words all of the things that go on inside your brain. Behavioral psychology as just as the word 'behavioral' suggests, means the behavior of a person or a client, how the person is behaving. They observe the behavior of the client. They tell us that the environment shapes human behavior. Humanistic psychology attempts to help people understand that they have the potential for self- fulfillment. This knowledge can help with decision-making and avoiding stressful situations. It can help with time management, with your financial progress, school, family, mental health and physical health. Psychology allows people to understand more about how the body and mind work together. It helps many tackle their mental illnesses so that they can lead their lives peacefully. It can help with time management, setting and achieving goals and living effectively. Psychology aids people to understand precisely about the working together of the body and mind. This might help with management of time and living effectively. Psychological studies help in curing various diseases including Alzheimer's and Parkinson's.

“We are what we are because we have been what we have been, and what is needed for solving the problems of human life and motives is not moral estimates but more knowledge.”

– Sigmund Freud

Karnika Singh, 7D

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## IS ANIMAL TESTING ETHICAL IN MEDICINE - FOR THE MOTION

Dr. Arthur Saniotis once said, “Even Aristotle, probably the most influential of all thinkers, argued that humans were superior to other animals due to our exclusive ability to reason.” Our exceptional cognitive faculties make us far more sensible than animals, capable of steering consciousness to greater heights. It need not be mentioned that research in the field of medicine is indispensable. It enhances our knowledge of physical and mental illnesses and the ways to eradicate them. Scientists and doctors across the world are continuously making efforts to lead humanity to a disease-free world.

Animal testing is an inevitable step to the leading researches in medicine. Testing on animals continues to facilitate the production of many life-saving medicines for humans and animals alike. It has undoubtedly led to the preservation and betterment of human life. Moreover, it also ensures that the medicines produced are not detrimental to our bodies in any way.

Animal testing saves money. When drugs are tested on animals, they can be deemed safe for human use but a lack of it could cause the drug to be re-manufactured, which could incur higher monetary costs and result in waste of time. Non-animal testing is even more time-consuming and costlier as humans demand money for undergoing tests. At the same time, testing on human body might also be considered ethically wrong by activists across the world. In the light of such major hindrances, animal testing appears to be more feasible than animal testing.

The animal DNA is quite similar to the human DNA which translates to humans being capable of acquiring more knowledge about various diseases. Further, humans are also devoted to the process of discovering cures for most of the fatal diseases. This helps all the living beings on earth to have a longer and healthier life. Due to the similarity in the two DNAs, with enough research, we can arrive at the cures of many yet non-curable diseases like different types of cancer and various neurological diseases.

It is important to acknowledge the fact that animal testing not only helps human beings, but also animals. In the last two decades various cures for animal diseases have been found through this technique. Animals now enjoy a greater longevity as compared to olden times. They have a better chance of surviving disease and injury now. They can be treated for various diseases, all thanks to animal testing.

According to Charles Darwin's *Origin of Species*, "It is not the most intellectual of the species that survives; it is not the strongest that survives; but the species that survives is the one that is best able to adapt and adjust to the changing environment in which it finds itself." We need to remember that in performing this kind of a research, only a small sample of animals is tested upon, and it provides massive benefits like discovering cures of lethal diseases, saving countless lives and improving the health as well as the overall quality of life.

It is quite easy to make tall claims of protecting and conserving the animal kingdom, but is it practically possible in the medical field? At present, there are no alternative testing techniques available to us which are as advanced as animal testing. Ethics is but subjective and inadvertently biased. If, in a certain scenario, you are not permitted to escape making the choice between killing a couple of animals and saving countless human beings, what will you choose? I firmly believe that you will choose the latter.

Rishabh, 8F

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## IS ANIMAL TESTING ETHICAL IN MEDICINE - AGAINST THE MOTION

Albert Einstein once said, "Our task must be to free ourselves from this prison by widening our circle of compassion to embrace all living creatures and the whole of nature in its beauty."

In a hurry to get medicines for a relative, can you kill someone on the way to the pharmacy with your speeding car just because you are running late by a few minutes? I don't think anyone can indulge in such a heinous act. Why are we then killing animals or making their lives worse than death, blinded by our insane greed for accelerated progress in the field of medicine?

I strongly believe that animal testing is unethical. It is not our birthright to cause misery to animals simply because they are unable to voice their suffering. Over hundreds of millions of animals are crippled, burnt, poisoned and abused every year. The significant question in such moments is: Are we truly making progress in a holistic manner? I think that we are merely crossing milestones of cruelty in the development of a handful of medicines of which, sadly, the very foundation is lives of millions of animals. The true adherent of peace and non-violence, Mahatma Gandhi, also said, "The greatness of a nation and its moral progress can be judged by the way its animals are treated."

Just imagine yourself taking a shower, and suddenly, due to the shampoo getting in your eyes you become blind. Isn't it horrifying even to think of it? Don't worry. It might never happen to you. But, it happens with Beagle dogs every single week in testing of shampoos. In 1997, a scientist named Dr. Jay Vacanti and his team grew an ear on the back of a mouse and after one day his skin burst, as all his skin was attracted towards the back for the formation of the ear, and it eventually died. It is spine-chilling even to think of ourselves in place of the innocent animals that suffer atrocities like dissection, poisoning, vivisection, toxicology testing, to name a few.

Sri Aurobindo rightly said, "Life is life - whether in a cat, or dog or man. There is no difference there between a cat or a man. The idea of difference is a human conception for man's own advantage." The human mind is excessively obsessed with a corrupting thirst for instant gratification; no matter how harsh the source of it is. However, an empathetic human being cannot derive pleasure from inflicting pain upon guiltless living beings. What scientists, who conduct lethal researches on animals ignore, is that animals also have feelings – they are also sentient beings.

A multitude of alternative ways of testing exist. We can replace animal testing by employing various other techniques. Instead of implementing the process on a whole animal, we can test it through cell cultures. Human cells or tissues can also be used. Certain epidemiological studies can be taken into account. We ought to remember that one who touches the sky of success by standing on deaths falls every time. The ultimate goal of mankind should be to alleviate suffering, not to increase it manifold.

Raghunath Bhasin, 8F

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## A NIGHT BEFORE INDIA'S MARS MISSION (PLAY)

### *Character Description*

*K Radhakrishnan: Chairman ISRO*

*Seetha Somasundaram: Project Director Nandini Harinath: Project Manager Minal Rohit: Scientist 1*

*V Kesava Raju: Scientist 2*

*Raghavendra Sharma: Chief Security Officer Deepali Rekha: Security Director Simran Devi: Security Manager*

### ACT One SCENE I

The night of November 4th, 2013 just a few hours before the Mars Orbiter Mission is to lift-off at Sriharikota using Polar Satellite Launch Vehicle C25 at 09:08 UTC the next day.

Radhakrishnan (calmly) – It is India's first interplanetary mission and we are the fourth space agency to aim for Mars orbit. What's up!

Seetha – Everything is perfect. I'm really proud of our diligent team.

Nandini – From the five payloads to the Mars Colour Camera, all checked.

Radhakrishnan – I am so happy. Let me check the security wing once.

### ACT Two SCENE I

*At the Security wing, ISRO*

Radhakrishnan – Raghav, Are we all set for tomorrow?

Raghavendra – Yes, Sir. Everything is absolutely fine. Let me show you something interesting. With a broad smile on his face, Raghavendra, takes Sivan to the Top Secret Chamber.

(Gasps) Oh no! How is this possible? Who added all this here?

Deepali – What happened suddenly? Earlier everything was okay.

Raghavendra – I don't recognise all these files? Simran, take a look?

Simran (doubtfully) – Yes. (Seconds later) Oh my God! All the files are gone. My system is stuck. I can't do anything!!

Deepali: I have the backup. (Stands up startled) What? This is unbelievable! Even the backup is gone!

Simran – I hope it's not My Doom malware again. (Wistfully) What a tough time it gave us during the Chandrayaan launch!

Suddenly Sivan feels someone pushing him. He tries hard but his lips are paralysed. A sharp pain in his neck wakes him up.

Raghavendra – Sir, are you alright?

Radhakrishnan (disturbed) – How will we handle this threat now?

Raghavendra (confused) – Which issue, Sir? I was telling you about this exciting software that we developed.

Radhakrishnan – THANK GOD! IT WAS JUST A DREAM.

Shivansh Gupta 8G

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## THE SECRET OF NUTTEL'S LABORATORY

“A mad scientist you are!”, I shouted. How could Mr. Nuttel even think of creating a hen which looked like a human? Mr. Nuttel was always known for his crazy inventions which seemed illogical and senseless to everyone. Even this idea made no sense but he was curious to know the result. He, then in a strange voice replied, “I like to do any and everything that normal people consider weird and strange.”

Sometimes I thought his only dream was to start an apocalypse and terminate everyone's life. But his intentions were never wrong. He was a kind hearted person with an insane mind. I don't know why Mr. Nuttel was always around my dog and observed it very carefully and even my dog behaved in a peculiar way when it was around him.”

Finally, I got a chance to visit Mr. Nuttel's laboratory. His laboratory stunk but no one ever knew what was he up to. As I moved further and explored, I saw something unbelievable which left me dumbstruck. I started to observe it cautiously. “Will someone ever believe that this is created by none other than Mr. Nuttel!”, I wondered. But what was it? It was a clone of my dog. Mr. Nuttel was working on this for months and all of my questions were answered automatically.

But there was something different about this clone. It was very lazy and afraid of loud noises whereas my dog was always very active and brave. Because of this another question popped into my mind and I asked Mr. Nuttel about it. He explained, “Clones do not have exactly the same temperament and personality as the animals from which they are cloned. It has a lot to do with the way an animal has been raised. Also, cloning isn't new at all. In fact, we eat fruit from plant clones all the time, in the form of bananas and grafted fruits. We've been cloning plants for decades, except that we refer to it as vegetative propagation.” After listening to Mr. Nuttel's words, I was amazed and realized that there are certain myths about cloning that need to be cleared. Mr. Nuttel whom I always underestimated did something which many failed to.

Aunika Pandey, 8F

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## THE MYSTERIOUS SPACE SHIP

“Latest Report! A spaceship type object has been spotted. I repeat an object akin to a spaceship has been spotted.”

It was a delightful wednesday morning when NASA found out about this. Nobody was supposed to know about it. Before it somehow got out in the news, everyone was cheerful, getting ready to go to work. But after hearing the news, they started panicking ,screaming and becoming anxious. Everyone started thinking that it was the end of the world and there was going to be an alien invasion. They were running, packing their bag's thinking NASA had a plan to take them to another planet.

Meanwhile, the President who was live on all platforms said that there was no need to panic. “We will figure something out very soon.” The news spread like wildfire all around the world. All space organizations were working together to figure out what they could do. Then suddenly NASA was about to announce something, everyone thought it was a mega plan to evacuate humans or to defeat the aliens.

But they said, “Good afternoon fellow people! We are here to say that our team is really ashamed to tell that when we zoomed on the spaceship like thing, we found out that it was a weirdly shaped meteorite. There is no danger or alien invasion happening anytime soon. We sincerely apologize and assure you this will never happen again.”

Everyone was really mad with anger but secretly relieved that it wasn't the end of them.

Ishika Jain, 5F

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# OUR GREAT INVENTORS

Our Great Inventors....

Oh! The Inventors, Thank you for your deeds, Without your inventions, where would we be? Assume if there were no inventions,  
The existence would be like time-lapse reflections.  
The telephone facility enabled us to talk any time, any where. Light brightened our way of success.  
Inventors, Inventors! You made everything new, You made our existence peaceful,  
A great thank you!

Yash Raj Bajpai, 5G

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## FOUR MYSTERIOUS DOORS THAT HAVE NEVER BEEN OPENED

In this fast paced world, I believe we can go anywhere and open any door we want to but I believe that certain things are always kept away from humans for good. There are some mysterious doors that have never been opened. Today we are going to talk about four such doors.

India, our motherland, is endowed with a rich heritage. India is the abode of one of the eight wonders of the world, The Taj Mahal. The Taj Mahal is a beautiful creation of marble which was constructed in 1631 by Shah Jahan in memory of his beloved wife, Mumtaz Mahal. The Taj Mahal is a mysterious place as it hides numerous rooms that are sealed. In some pictures of The Taj Mahal taken from the river side, we can see two layers of basement. Some rooms inside the palace are securely sealed. There are numerous theories why these doors have never been opened. Some researchers are sure that the sealed chambers are made of pure marble which can transform into calcium carbonate if exposed to carbon dioxide causing the marble to chip off. Therefore, the chambers are sealed and kept out of public eye. These rooms don't have any ventilation either. If too much Carbon dioxide gets into the basement it ,it can lead to a collapse of the four towers that support the Taj Mahal.

The Great Sphinx Of Giza is another monument that has been associated with mystery and enigma. Some evidences state that the monument was larger in size than it currently is. People have found huge stone blockers and tool kits left abandon near the site. Researchers have discovered two rectangular chambers at the depth of 25 FT. These rooms are situated underground right under the paws of the sphinx and there is a theory that these chambers might contain the mythical hall of records. This hall is believed to contain knowledge about life itself in the form of ancient paper scrolls. And some believe it could also reveal some secrets about the lost continent Atlantis. So far the authorities have discouraged people from trying to figure out the mystery of the underground chambers.

The next mystery door ,Shree Padmana Bah Swamy Temple, is also from India.. This is a real pearl in the state of Kerala. It's popular all over the world for its beauty. Beneath the temple, there are 6 doors which are massive and made of iron. Several years ago the authorities decided to look into this matter. In 2005, the six chambers revealed, a number of treasures. Bags of gold, gemstones and priceless jewellery were found which was estimated to be a total of 1 trillion dollars. However, the sixth door is still closed. Many believe that a fatal curse protects it but this curse can be removed if a saint chants a specific mantra the right way. The problem now-a-days is that there is no such person who could do it. There is a story that in the 30s ,several people tried to steal its treasure but they didn't succeed as terrible snakes appeared out of nowhere and scared the gang away.

However, no one can prove the validity of this story.

The Tomb of China's first emperor, Qin Shi Huang, located in the Central China, very deep under a hill surrounded by poisonous mercury has been lying undisturbed for more than 2000 years. He passed away on September 10,210 BCE. In 1974 some farmers who were digging not far from Xian China, discovered a giant

Terracotta soldier. After this people tried to find more about the scene. It lasted for more than four decades. The Terracotta soldier was just one of many others. Each of them was very different from the other.

People say we have just found 2,000 soldiers out of the actual 8,000. The burial ground of the emperor is yet to be touched but not for long. According to the archaeologist Kristin Romey, we don't have the required technology to excavate the tomb properly. People say the emperor made a huge underground city. There are mercury rivers surrounding the tomb.

Vibhawari Upadhyay, 5 E

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## SCIENCE - A BOON OR BANE

Science has made our life easier impressively since the old ages. People are learning that's why they know that there still is a lot more to know and learn. Science has revolutionised our life in many ways.

There are many things that have successfully improved in science such as hybrid plants, robots, complex machines and many more. Firstly the hybrid plants are made by humans by combining two or more plants. Robots are machines that are made to imitate human actions, some scientists have even tried to make robots that imitate human values but that is purely impossible. Machines have been in use since humans started their existence, but not very sophisticated ones. There have been tools made out of stones and sticks.

Scientists have made our life easier and are still trying to improve it even more. Children are learning and making their countries proud. Sometimes competitions are held and children or adults become famous because of their hard work. Science, science, science..... it has made the world so much better but there are some disadvantages too. The devices like mobiles and laptops give out radiations which are harmful for us. Science is now an important subject taught at all the schools in the world.

Rumaisha Sheikh, 5C

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## GRAVITY

Have you ever wondered what would happen if we would fly and there will be no control over our bodies? No buildings and no home! Yes, you are right, I am talking about gravity. It was first discovered by Isaac Newton. According to the theory, one day when Newton saw an apple falling, he thought about the forces of nature. Gravity helps us to stay on ground, hold things together and without it construction and various physical activities cannot be performed. It is exactly like water: When you go into a pool and let yourself free, you start floating. Even astronauts, who go to space and travel in a spacecraft, are trained underwater. Gravity is one of the reasons our beautiful lives are easy. In short, gravity is a force of nature that pulls the matter downwards. It is a magnet that attracts all the matter towards itself.

Fun fact: Did you know the moon's gravity causes tides? Gravity is an amazing force of nature. As they say, "Gravity is beyond us."

Shaurya Gupta, 5 E

☆☆☆☆

# SCIENCE AND SPIRITUALITY

“Science and Spirituality are two ends and you have to keep yourself in the middle.”

Science and Spirituality, though apparently opposite are related to each other. Despite being together, they are apart and despite being different, they are the same. People often get confused between Spirituality and Science. Some believe in Science while others in Spirituality.

Spirituality helps us to find the meaning of life. Science tells us the reason behind everything, the purpose of everything. Spirituality is an inner journey to connect with the Supreme power. We can say that Spirituality goes beyond Science.... beyond the world whereas Science gives us knowledge of the world in which we are living.

The two terms are so closely related that if the mind is not scientific and does not have the knowledge of the world, it cannot be spiritual and cannot understand the Supreme truth. If we don't have a basic knowledge of the various scientific phenomena like rotation of the earth, occurrence of day and

night then we will not be able to understand things like 'KARMA' or our actions, 'AATMA' or the soul, 'PARMATMA' or the Supreme master.

It is a fact that scientists also worship God. When Chandrayan 2 was being launched, Mr. K.Sivan, the Chairman of ISRO was offering prayers at Lord Tirupati Temple for the success of the mission. Before starting every new mission, prayers are offered to God- the Supreme power to seek his blessings for successful completion of the project. There are many holy places where wonderful things happen. For example: The river Ganga is present near every prestigious temple of Lord Shiva. The creation of the universe, the sun, the moon, the earth, the planets, The Milky way, sound, air, water, and so on, are all due to the Supreme power's grace. He is the creator and so here is where Spirituality comes in but at the same time this is Science as well..

According to me, both of them are inter-related and thus incomplete without each other. M.K Gandhi once said, “If both Science and Spirituality go hand -in -hand, one can create heaven on Earth.”

Let's strive to make the earth a heaven.

Yuvika Singh, 8B

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## THEORIES ON QUANTUM PHYSICS

Quantum Physics is the study of matter and energy at the most fundamental level and its laws are totally different from the real world.

Quantum Entanglement- According to Sir Albert Einstein, Quantum Mechanics allows two objects to affect each other's behaviour instantly across vast distances, and named this phenomenon as “Spooky action at a distance” or “Spukhafte Fernwirkung”. Later it came to be known as “Quantum entanglement”.

Let's assume there are two particles, so if they have been brought into physical contact once, they will remain connected even though they are a thousand miles apart and can affect each other's

behavior. The particles are always in a state of superposition and their position can only be known at the time of calculation, so if one particle is moving clockwise, the partner of that particle will be moving anticlockwise, and that's how information can be interpreted in a very less time without even calculating the position of the partner particle. This information can travel faster than the speed of light. Let's say if one particle is kept in a lab on earth, and the other one is kept in Andromeda Galaxy, which is 2.537 million light years away from earth. If the position of one particle is calculated to be clockwise, then its partner's position will be anticlockwise and the interpretation of this information will be faster than the speed of light.

Physical Duality- The fundamental particles exhibit a property known as wave particle duality which means that the particle is a particle and a wave at the same time, it is visible and invisible at the same time. In the 'Mahabharata' Lord Krishna was known to be present at two different places, in two different forms At the same time, many scholars have a hypothesis that this was possible due to quantum physical duality.

Universe created by consciousness and thoughts- Henry Strapp and many other scientists believe that the universe is created by thoughts. This theory states that this world always remains in a state of waves, but when there's an observer, then these waves change into real matter and we see them as objects. According to this theory, if one is sitting at his home, away from his workplace, then that work place is in the form of waves, but when the person goes there, it changes its form into a building because the person observes it, the building changes its form because our mind creates it. The mind interprets these waves in the form of a building. These are some of the most famous Hypothesis and Theories of Quantum Physics.

Aradhya Sharma, 8B

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## TECHNOLOGY AND THE FUTURE

The curious minds have learnt it, One click of a button,  
And what is not done, We learn, we develop,  
But now no hard work, only smart work.  
The curious minds have learnt it, We worked and were acknowledged,  
From an officer to a worker,  
Money made conditions better, For money, limbs were strained,  
To work hard, everyone was trained, Machines were there,  
It was 60% people and 40% machines. But now.....  
100% machines  
The curious minds have learnt it,  
Our lives technology has completely occupied,  
Health destroyed, peace of mind disturbed Voice  
of the soul no longer heard,  
Machines and only machines, Oh those golden days!  
Where are we heading to?  
Alas! The curious minds haven't yet learnt it.

Pranvi Shahi, 8 B

☆☆☆☆☆

## THOSE ROVERS, THOSE SPACESHIPS CAME TO MARS,

Those rovers, those spaceships came to Mars,  
Took a round here,  
Clicked photographs of this sphere,  
Collected information of this red planet,  
They observed the activities at Mars,  
and sent them to the Earth.  
They know about us ...  
This is what I fear.  
Wake up rover and collect knowledge about me,  
Through the sand, cold and dry atmosphere,  
As you give hints to the people on the Earth,  
that they can come and crowd up this planet as well.  
This is what I fear

You give details to the selfish man on Earth,  
That he can destroy this planet as well.  
They will touch this red surface,  
Layered with rocky plains.  
And destroy me as well some day .  
This is what I fear.

Chaitanya Singhal, 9B

☆☆☆☆☆

## HOPE

As I let the door shut behind me, I could hear the hinges of her arms grinding as if she was in pain. My own creation, my own android robot trying to jump-start the ship and make, giving us hope for one last time...

Jide Williams, at the early age of fourteen, was already intrigued by astronomical concepts. He used to dream about these heavenly bodies in his sleep and by the age of twenty, he was obsessed with these concepts. He started doing calculations and found evidence of a wormhole opening near the planet Saturn, in the next ten years. He approached multiple organizations but when he told them about his theory, he was often laughed at. He was shattered by the humiliation that he faced and then decided to go and reside in a meditation center somewhere in the eastern part of the world. There, he felt true happiness as everyone around him appreciated the information which he shared and he too was introduced to many new concepts which he had never thought of before.

He lived happily until he was recruited by NASA to be the commander of the ship that was going to go into the wormhole. While discussing the almost impossible seeming journey into and out of this wormhole, Jide felt happy as he knew he was right. All these years at the meditation center helped him clear out his mind making him even more efficient. A year later, Jide, accompanied by his team of four people and one of his own made robots, left Earth on a journey of a lifetime. After about a year in hibernation, they were about to enter the wormhole. They all said their prayers and got ready to witness what this universe's true beauty looked like. In those fifteen minutes, their pupils dilated and what they saw could not be described. To Jide, it was beauty at its purest form. However, they were not prepared for the extreme turbulence that they faced on the journey through the wormhole. They somehow managed to escape with the help of the gravity field of the wormhole. They landed on the nearest planet but realized they did not have enough resources left. After a lot of strenuous calculations, they concluded that only one could survive and possibly make it back to earth. The other four being considerably older than Jide, told him to go ahead with the ship while they remained on this new planet, striving to survive for as long as they can.

While on his way back, the only thing he could think of was Murphy's law, everything that can go wrong will go wrong. He sat with a piece of paper and a pen and started writing something as he saw the engine of the ship fail. He wrote,

"A thousand times we die in one life. We crumble, break and tear apart until the layers of illusion are burned away and all that is left, is the truth of who and what we are. I, Jide Williams, have seen everything I ever wanted to see, have answered everything I ever asked, have questioned everything I ever knew, and here I am today. I will go out of this world just the way I came in, unnoticed. All that remains now is me and my robot. As I let the door shut behind me, I could hear the hinges of her arms grinding as if she was in pain. My own creation, my own android robot trying to jump-start the ship and make, giving us hope for one last time..."

Aman Bhargava, 9A

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## ROLE OF DRONES IN THE MODERN WORLD

Science has developed over many centuries dating back to the Stone Age when people learned to cook food using fire and to adapt to forests and jungles, living there in their own shelter like the animals. In the 20<sup>th</sup> century, many scientific discoveries were made by several renowned scientists like Albert Einstein, Sir Isaac Newton, Thomas Elva Edison and many more.

Technology and Science have thrived in the 21<sup>st</sup> century with astonishing developments and advancements like the remote-controlled drones. First invented in 1935, these unmanned aerial vehicles have evolved in many marvelous ways and in today's modern world they are playing a major role. Drones have secured their place in many different professions and are helping the world in many ways. They are used in filming, photography, monitoring climate change and also in carrying out search operations in the places where natural disasters have struck. Their most conventional use is by the military for reconnaissance, surveillance and targeted attacks.

Sometimes, when a city or a town has been heavily destroyed by earthquakes or is infected by a disease,

quick need of medical supplies and food items is necessary which is where the drones come in. They are the fastest and the quickest in such circumstances to deliver food, water and medical supplies to remote disaster struck regions. Drones are also used for commercial purposes. While constructing buildings and infrastructure, some planning and management like monitoring of buildings, soil type and analysis of topography is required. Drones are configured in such a way that they can capture data through cameras and analyze the construction process throughout. Their uses are endless but they are also meant for entertainment. Synchronized light shows and floating projection screens are used as a means of entertainment in the famous amusement park of the world like Disneyland and Universal Studios.

Retailing and advertising of products can also be achieved by these drones and they help the newcomers, who have a knowledge of these devices, to earn money and introduce a new way of connecting to the people. Children should be educated about these new and advanced devices and should be made aware of the innumerable good and productive things it can do. Drones are becoming advanced day by day and they will definitely play a more vital role in the upcoming years.

Ekaansh Singh, 9B

☆☆☆☆

## **ROLE OF DRONES IN MODERN WORLD**

“It has become appallingly obvious that our technology has exceeded our humanity.”

Technology has indeed affected today's world, transforming it from offline to online, from classroom to zoom platform, and from blackboard to screens. Technology has an impact on how people interact, learn, and think. In the present era, technology plays a critical role. We live in a time where technological advancements are commonplace. One of the ways that technology has influenced education is that it has made learning more interactive and collaborative. It also pushes the classrooms' boundaries, promoting self-paced learning. Learning has become more enjoyable and convenient as a result of technology developments. Human behaviour is now molded by technological factors. Scientific discovery is commonly acknowledged as a catalyst for technological advancement. Many breakthroughs in electron-beam microscopy have resulted from the search for better microfabrication techniques, or the development of tunable lasers has resulted from the search for novel devices.

Unmanned aerial vehicles (UAV), sometimes known as drones, are perhaps an illustration of technological innovation during this period. Drones are now employed for a variety of purposes, including small-item delivery, crop monitoring, emergency response, and security surveillance. As more sectors discover ways to benefit from drones, the application cases seem to be unlimited. Many people enjoy flying drones for fun. Drones, on the other hand, were mostly used for military objectives when they initially became available on the market. In the present period, drone technology has progressed. Drones are being used by filmmakers to capture aerial images and create Hollywood films. Big digital corporations such as Facebook and Google are testing solar-powered drone technology to bring the Internet to rural areas. This has the potential to change the way we connect.

Drones in the military need to have much higher precision and accuracy. Unlike other drones that use pre-built flight control solutions, drones for defense forces need custom-built solutions designed by those with extensive experience in this field. They are utilized to deliver critical supplies to people living in disaster-prone areas. It assists in the search for survivors during natural disasters such as hurricanes, tornadoes, and earthquakes, as well as other search-and-rescue missions in difficult conditions. It has made monitoring and collecting data on broad swaths of agricultural land much easier. It makes it much easier to keep tabs and collect data on vast amounts of agricultural space.

To conclude, drone technology is a highly contentious and heavily cited topic in today's globe. Drones in particular can be regarded in a variety of ways, from an enjoyable, recreational, leisure pastime to a lethal military weapon because drone technology is quickly becoming ingrained in society.

Isha Jain, 9A

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## ONLINE CLASSES!

'Twas the first day of our class on Zoom!  
Ain't no one in our rooms!!

Introductions and interactions,  
But nothing can progress without a few distractions,

Let me be honest and say something right,  
The process, by the students, was quite liked!

Sometimes the participants entry kept crashing,  
Or the web cam's light anonymously flashing,

Screen share began for the map,  
Poor map met a mishap!

For Australia's boundary was scribbled and scratched,  
Done unexpectedly by a miscreant, but his mischief was smashed,

The cameras weren't switched on in the morning,  
The only reason being the pyjamas and the yawning,

Here comes the classic mute button!  
The thing with him is always uncertain.

When the background is soundless,  
He is muted and quiet,

But as soon as your parents start calling,  
Or the younger ones come lolling,

How on earth does this button get on?  
Everybody on zoom, hearing the noise in your background!

Whenever teacher asks whether we have done our work or not,  
Deep inside our hearts we know, "We have not."  
We wait and wait for someone else to reply and affirm,  
Adjusting the camera a thousand times, "Ma'am am I audible?" we confirm.

Goof ups like these, are a part of learning something new,  
For mistakes help us to know things we never knew.

Online classes have become an inevitable part of our lives,  
All this will make us ready for the tech era that is soon to arrive.

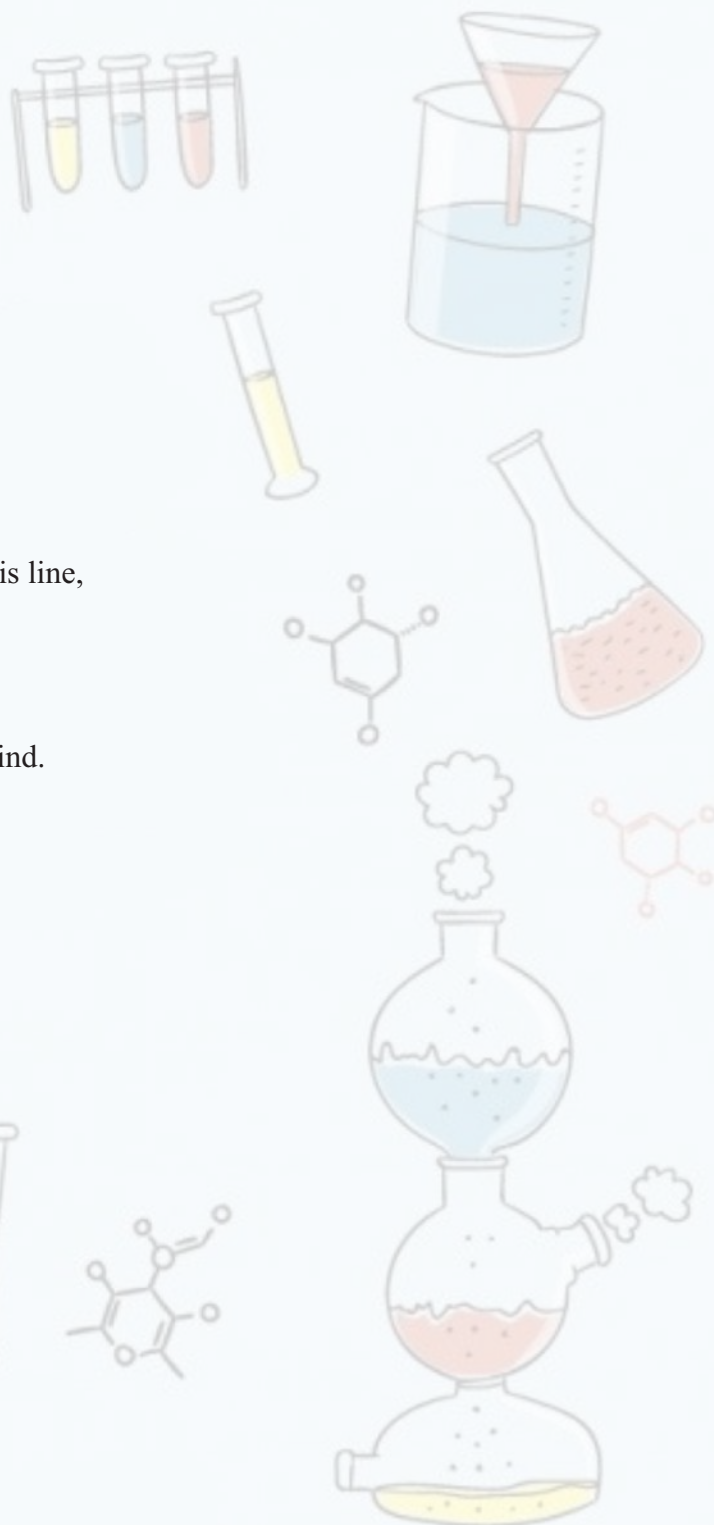
Khushali Singh, 10C

☆☆☆☆

## SCIENCE NEVER GOES OUT OF STYLE!!!

If you find science laws uninteresting and unkind  
Read the lines below to change your mind  
Who has seen the wind?  
Neither you nor me  
But when the leaves fall dancing,  
The wind is passing.  
Isn't it so much fun to see?  
Evolution made your brain, heart and spinal cord,  
using medicines, scientists made the vaccines,  
Technologies that keep you alive, are born of science.  
Sunlight takes about eight minutes  
to reach your eyes,  
and helps you see the things you like.  
science never goes out of style.  
Lab coats and goggles make you look cool,  
Chemistry, Physics Biology Labs!!  
So many experiments to be proved,  
Tell this to your heart, body and mind  
Children grow smarter whenever they show interest in this line,  
people who study science, make everything  
which is theoretically impossible – come alive!  
Just like when I held a prism and gave a look,  
I saw the sun made a rainbow on my book!  
Just like falling of apple made Newton use his passive mind.  
Science is logical and never ends.  
it always comes back stronger than a 90's trend.  
Wait for the signal and meet science after dark,  
It'll heal all the places where others gave you scars.  
If you been out and making fun of the nerds  
See that's simply a mistake, know why?  
Soon they'll innovate something and change your life.  
Science is like writing a poetry,  
It takes the white light in me and breaks itself  
into a bunch of colourful memories for everyone to see.  
even all this while,  
you have been using science to read my lines...!  
Trust me, science never goes out of style!!!

Tarini Gupta, 10D



## SCIENCE SHOULD NOW FOCUS ON REPAIRING THE DAMAGES DONE BY SCIENCE.

Science has undoubtedly assisted us to make our lives easier, faster and interesting. It has a solution to every problem we face in our daily life. It provides relief in aches and pains, energy to cook food and run vehicles and makes life more fun as Science is the force behind everything like sports, music, television, latest communication technologies and the list is endless. The various inventions have made our lives independent. Well, these days Science is also helping us to attend our online classes.

Science has definitely proved itself beneficial but its benefits have actually made us blind towards the harm it has caused to the world. Everything has its pros and cons but the world seems to ignore the cons of Science. We should seriously consider the detrimental effects of Science on both mankind and nature and find a solution to them through Science itself.

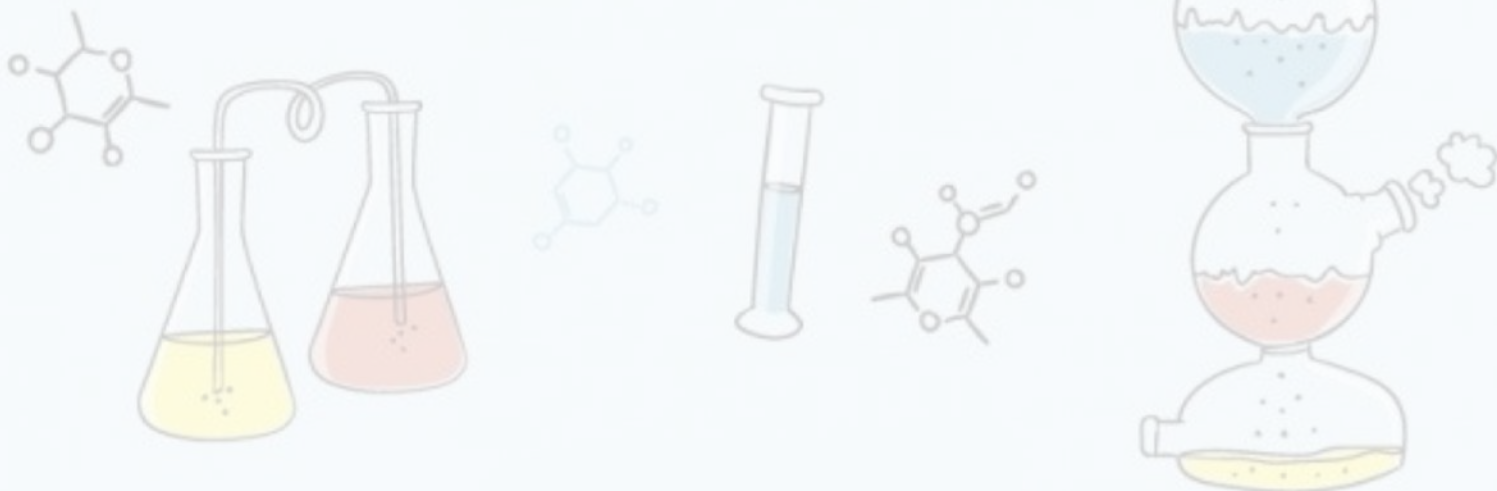
Vehicles are the best gift from Science but their excessive usage has become a threat to the environment. The harmful greenhouse gases released by them have become a major cause of depletion of the Ozone layer. According to the World Health Organization (WHO), each year air pollution is responsible for nearly seven million deaths around the globe.

Every problem has a solution and so does this. Electric cars and vehicles should be created and should replace the ones which release pollutants. This way we will be able to cure the environment as well as perform our work in an eco-friendly way. Plastic is another invention of Science which is causing damage to the earth. We are, day by day, getting addicted to single use or disposable plastic. In total, half of all plastic produced is designed to be used only once and is then thrown away in either water bodies or on land. However, waste plastic can be productive, some factories make soft fleece out of plastic which helps to make clothing such as T-shirts, jackets, blankets and garments. The government should give importance to such factories to utilize waste plastic in a productive way.

Science has definitely improved the quality of our lives but we cannot ignore its destructive side. As we see in the above examples, Science itself has a solution to its problems. We only need to implement them in our lives. So instead of creating more objects through Science, we should focus on eradicating the harms done by Science through Science itself.

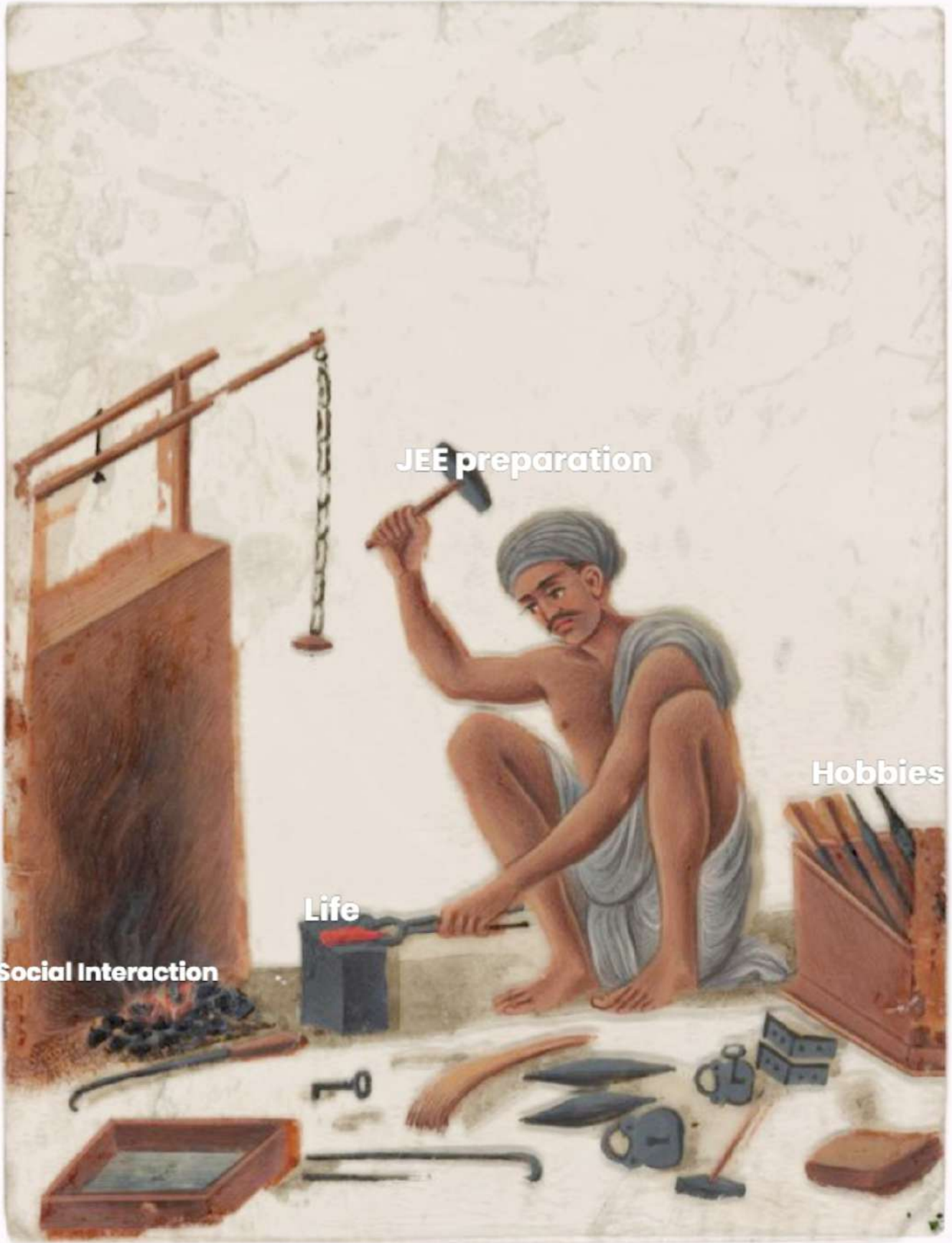
Mahirah Naeem, 9B

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The background of the page is a light gray collage of various chemistry-related illustrations. It includes several Erlenmeyer flasks containing liquids of different colors (yellow, blue, orange), a beaker with a funnel on top, a rack of three test tubes with colored liquids, a graduated cylinder, and several molecular structures represented as ball-and-stick models. Some flasks have bubbles or steam rising from them, suggesting chemical reactions. The central text 'QUIRKY CAPTIONS' is overlaid on this collage.

# QUIRKY CAPTIONS



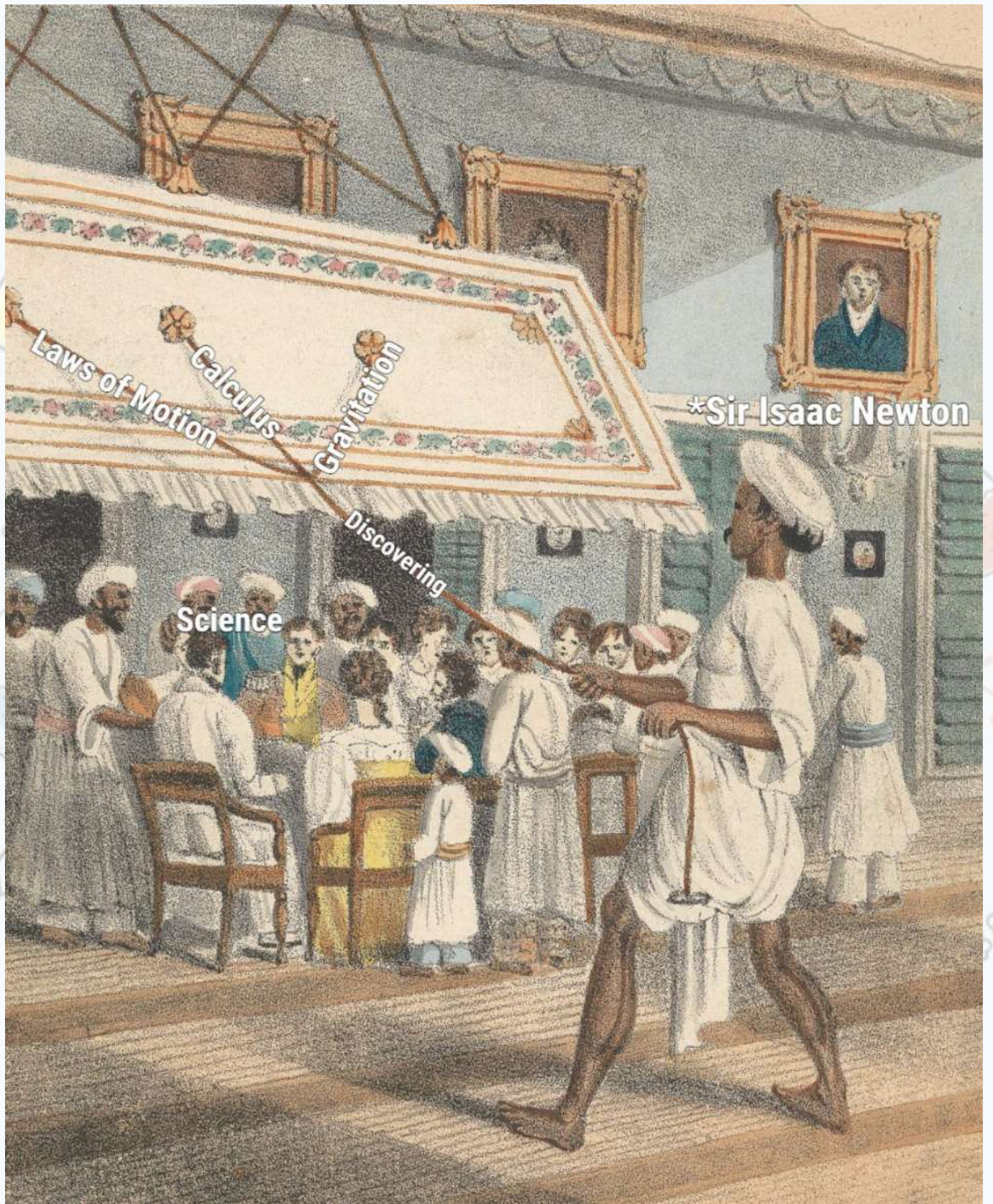
JEE preparation

Hobbies

Life

Social Interaction

Anshuman Suryavanshi, 12A



Anshuman Suryavanshi, 12A



Painting

Architecture

\*Leonardo da Vinci

Engineering

Anatomy

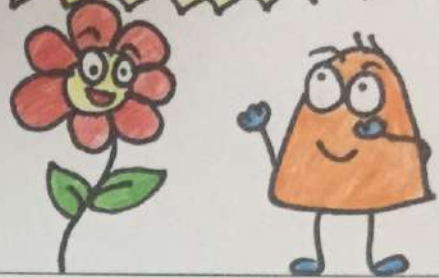
Physiology

Anshuman Suryavanshi, 12A

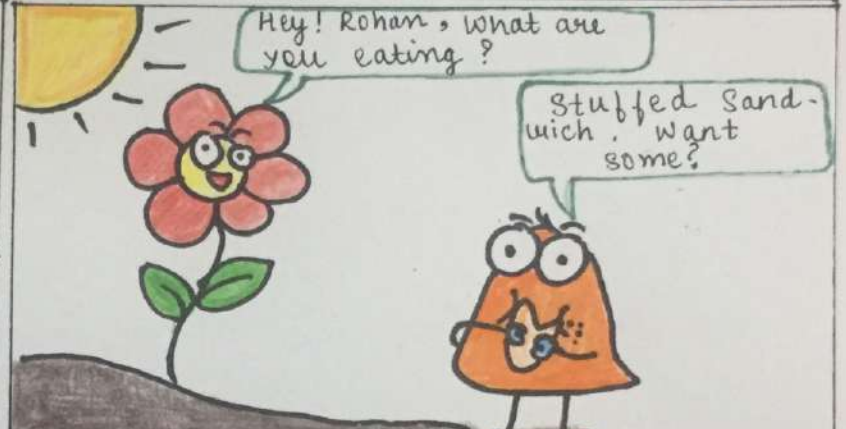
# Celebrating Science

SCIENCE

## STORY OF FLOWER & ROHAN

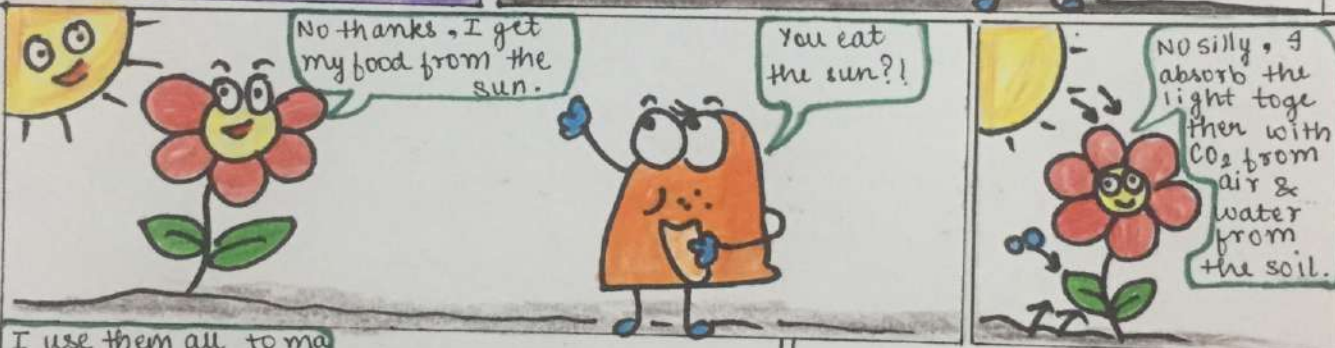


ROLLER COASTER RIDE BEGINS



Hey! Rohan, what are you eating?

Stuffed Sandwich. Want some?



No thanks, I get my food from the sun.

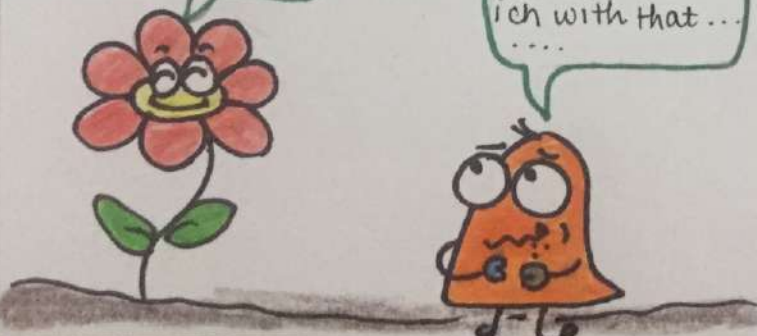
You eat the sun?!

No silly, I absorb the light together with CO<sub>2</sub> from air & water from the soil.

I use them all to make my food which help me to grow. It's called photosynthesis!

OH cool!... Can u make me another sandwich with that... ..

Hah.. Hah...



LET'S PARTY



Gaurang Agarwal, 10A

I'm not a planet anymore! He says I'm a DWARF Planet!

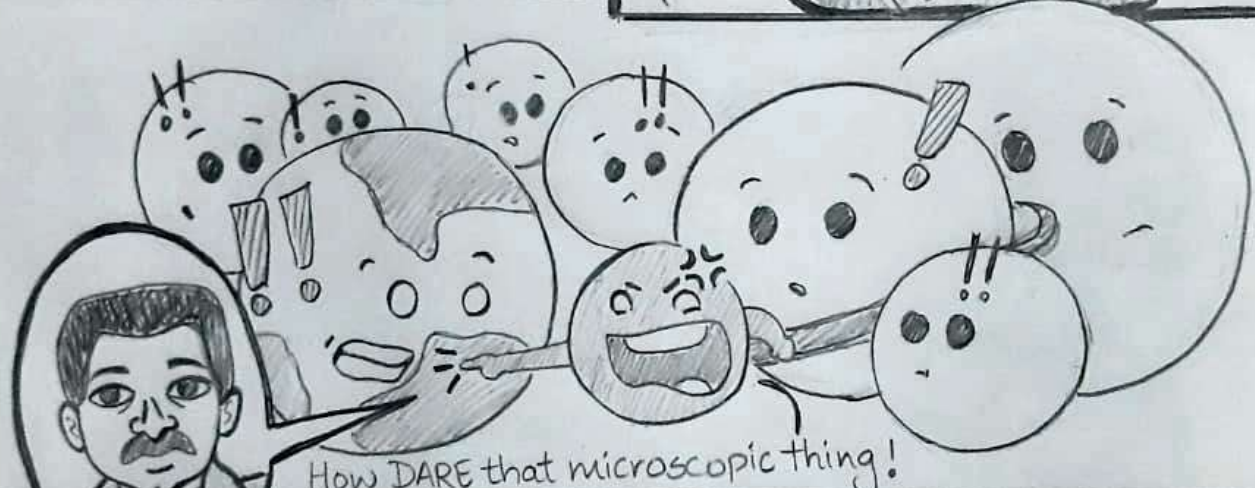


Says who?

Neil deGrasse Tyson

Dear Pluto, You're a Dwarf Planet — get over it.

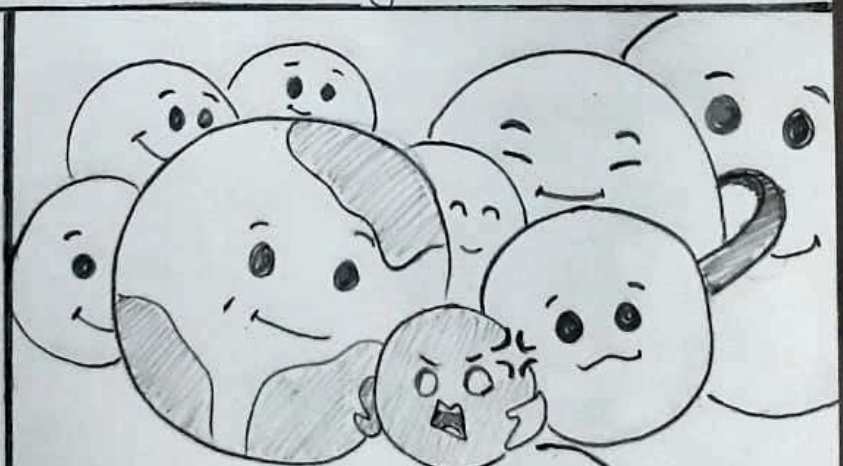
Love, Neil deGrasse Tyson



How DARE that microscopic thing!



He is not even a millionth of my size!!!



Dear Neil deGrasse Tyson, I was a planet EONS before you were even BORN... And I will always be one, dwarf or not.. Get over it. Love, Pluto.

Advika Verma

**\*Elon Musk becomes the richest man on Earth\***

**Tesla**

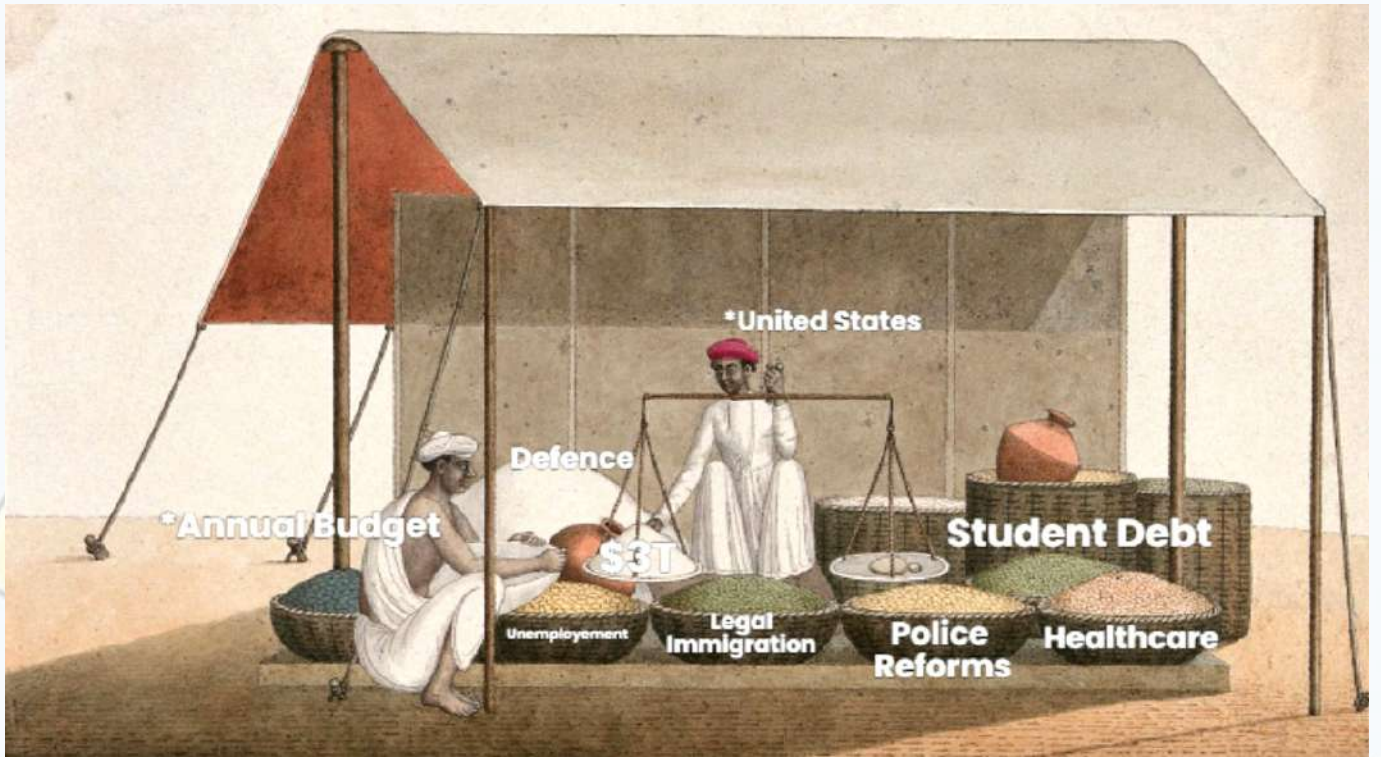
**PayPal**

**Dogecoin**

**Neuralink**

**SpaceX**

Anshuman Suryavanshi, 12A

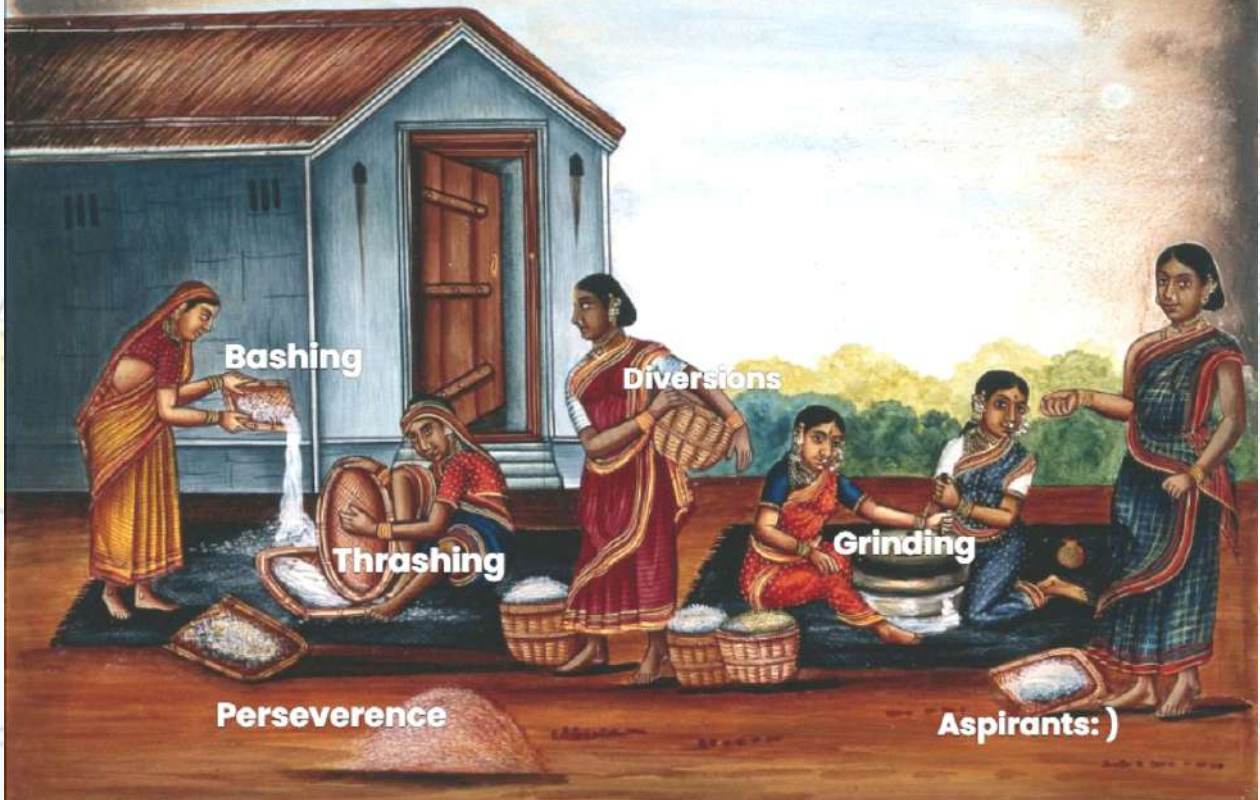


Anshuman Suryavanshi, 12A

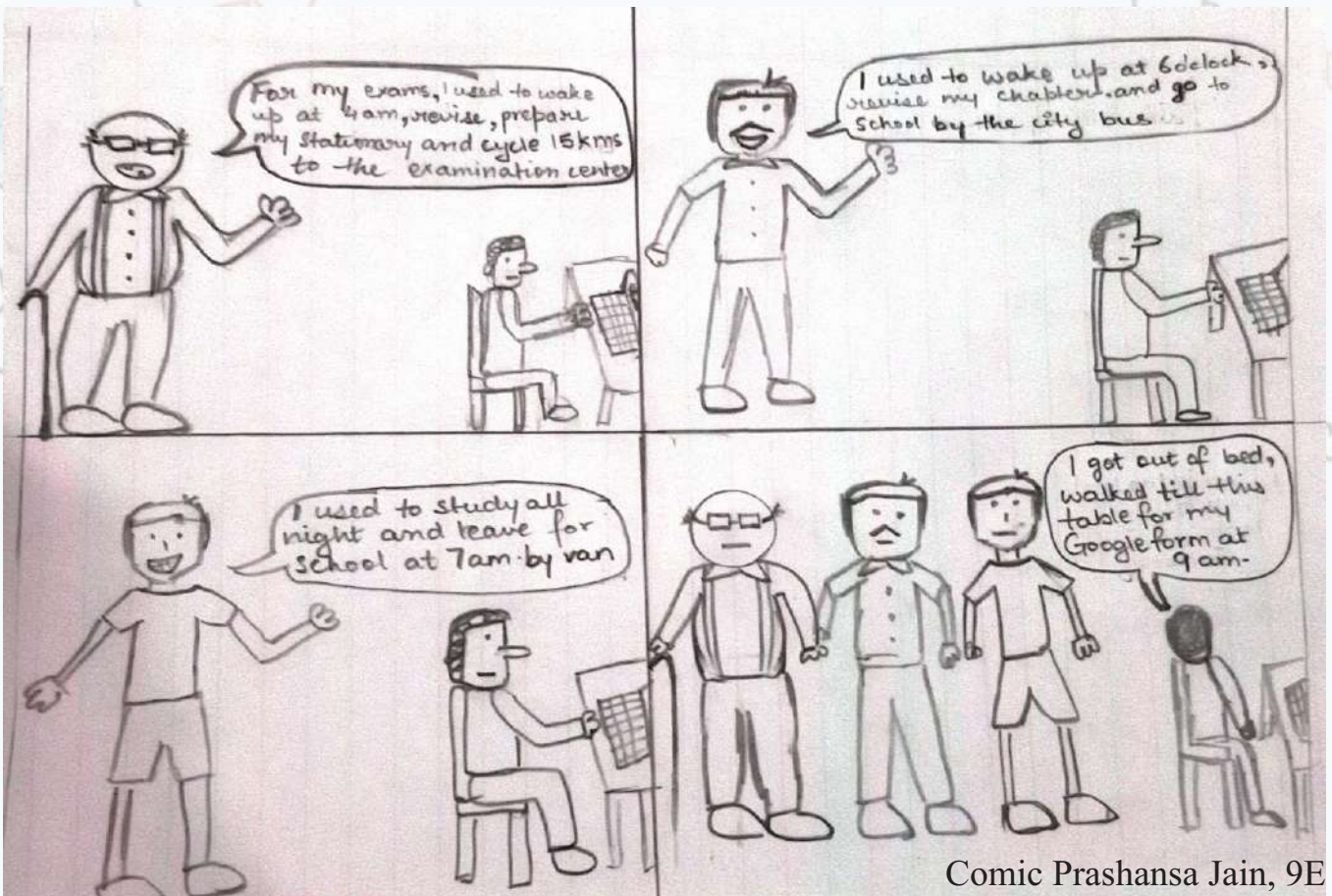


Aaditya Jain, 10C

**\*Indian Competitive Exams tests your abilities\***

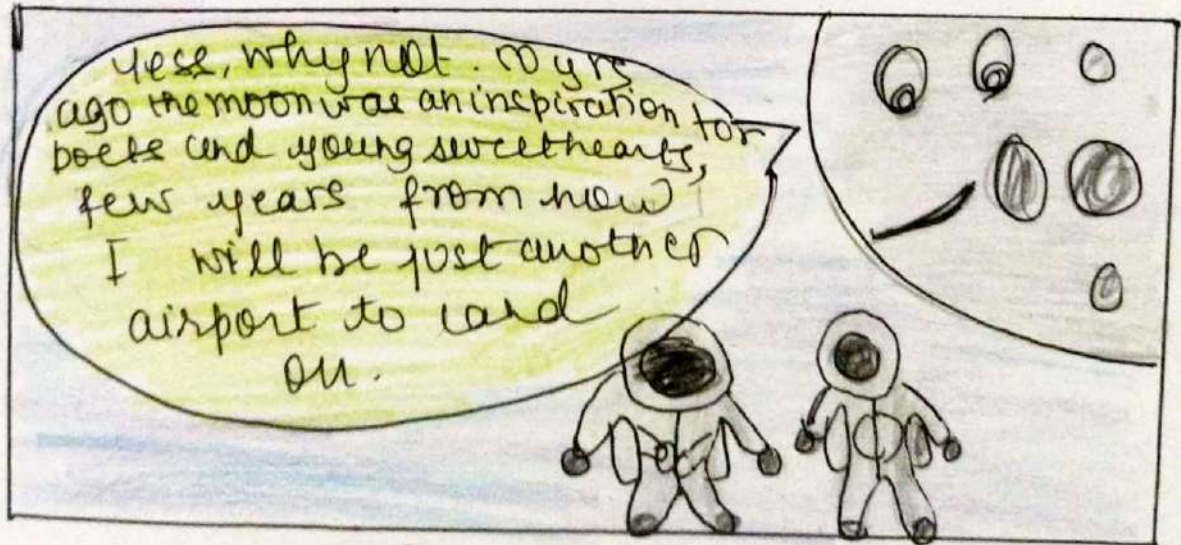
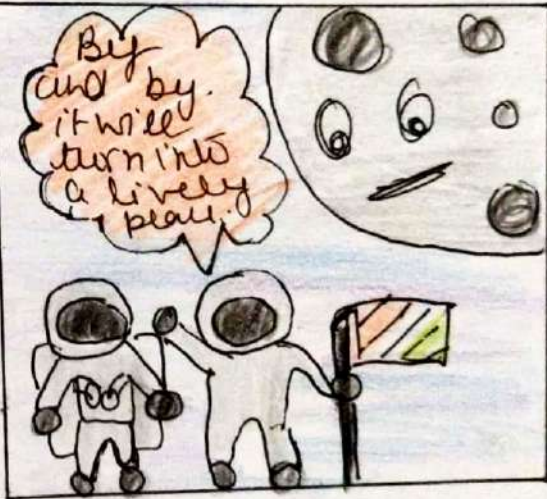
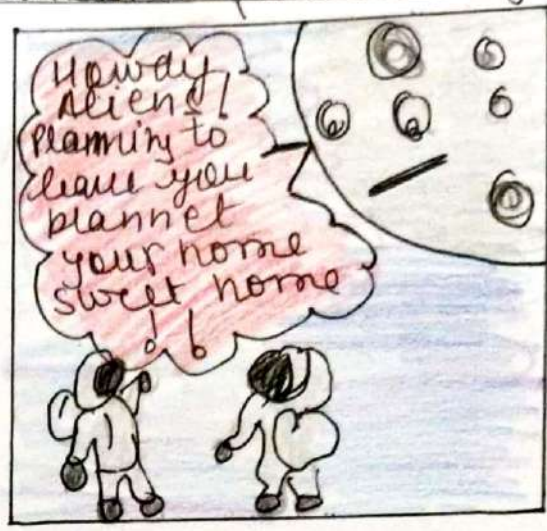


Anshuman Suryavanshi, 12A



Comic Prashansa Jain, 9E

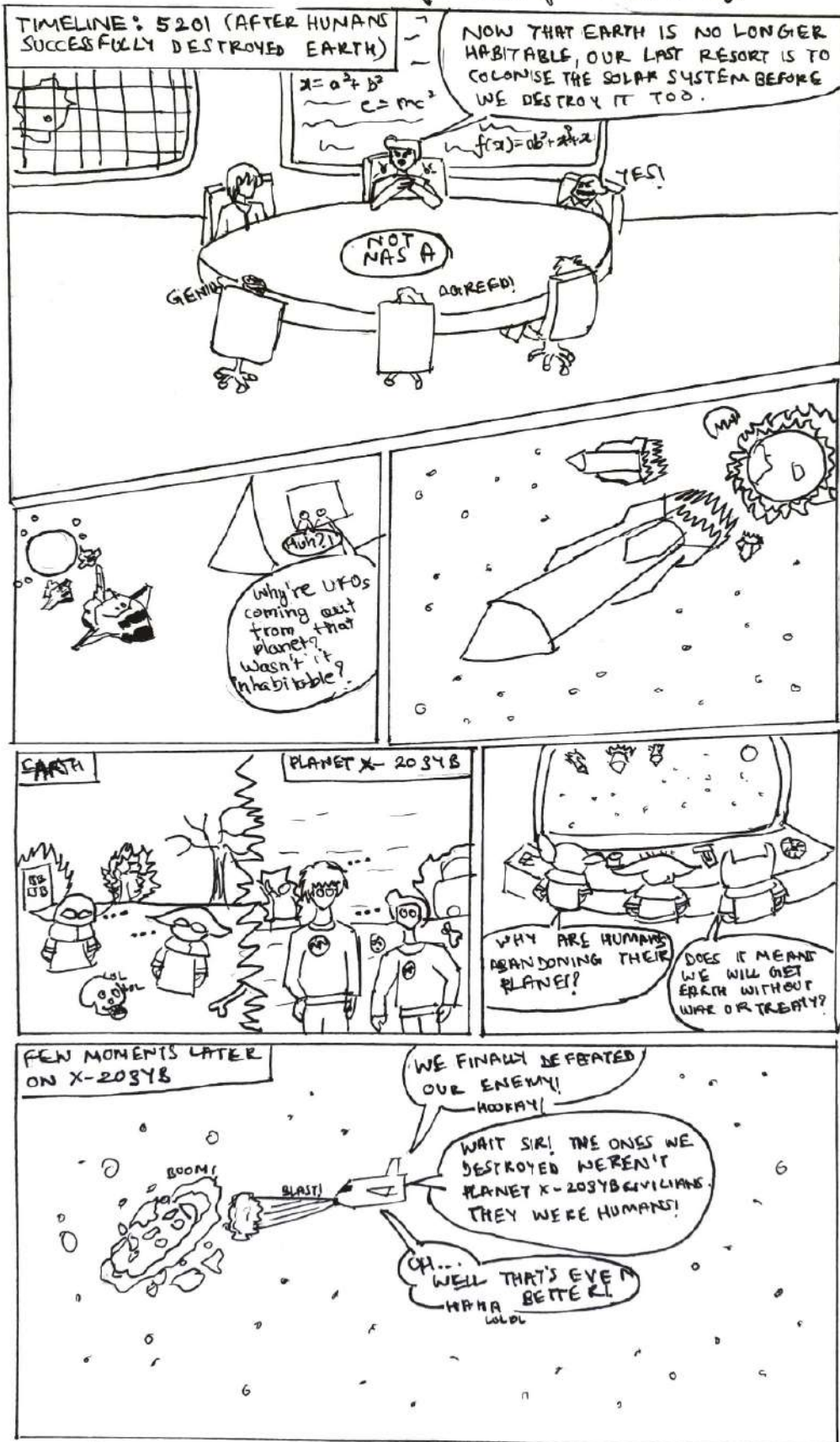
Comic strip writing (C) Colonization of the Solar System



Ramsha Siddiqui, 10C

# Colonization of the Solar System

← Read from right to left



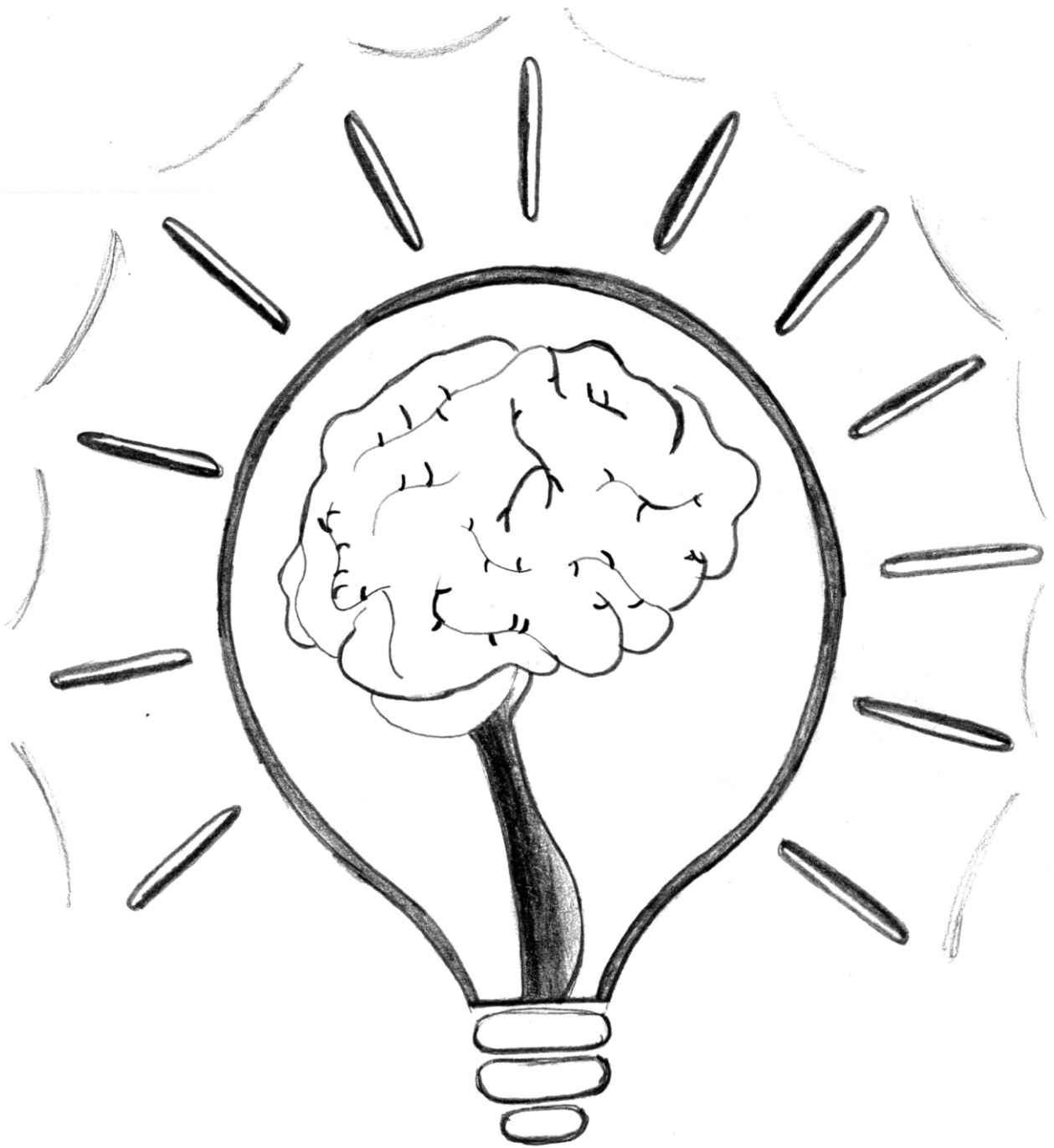
Hritika Singh, 10B

Comic Strip Writing  
(English creative writing)

TOPIC → A conversation at the River bank between the living and the non-living.



Janya Jaiswal, 10C



# CELEBRATING SCIENCE

Ajey Pandey, 8A

## Science : A Boon

Science is a treasure  
Difficult to measure  
Science is a boon  
Helping man reach the Moon.  
Science is a mystery  
Solved by ultimate chemistry.  
The world of ecology  
Is portrayed by biology  
Science is the wonder of the world  
Science is the treasure of the world  
Creating a pathway of faith and hope  
Rapidly expanding the knowledge of humanity  
**Parv Patidar, 8A**



Vibhu Kumar, 9G

☆☆☆☆

## I Want To Be A Scientist

I wish to be a scientist,  
Going on new trails.  
Discovering the Nature,  
Be it rain, shine or hail!

I wish to know how acids are formed,  
And play with the chemical bond,  
Or see how the seeds turn into trees,  
And if a platypus could survive in a pond!

I wish to know the world  
Or why the apple fell.  
Where the ground touches the sky  
The existence of heaven or hell!

Also, I wish to know  
Why the penguin is not found at the Equator,  
I wish to know why and how  
Animals know how to adapt to Nature.

Nature has many secrets,  
Some enjoyable and some that cause a scare,  
But don't ruin the joy of science  
By saying , "I don't dare!"

**Arihant Jain, 7F**

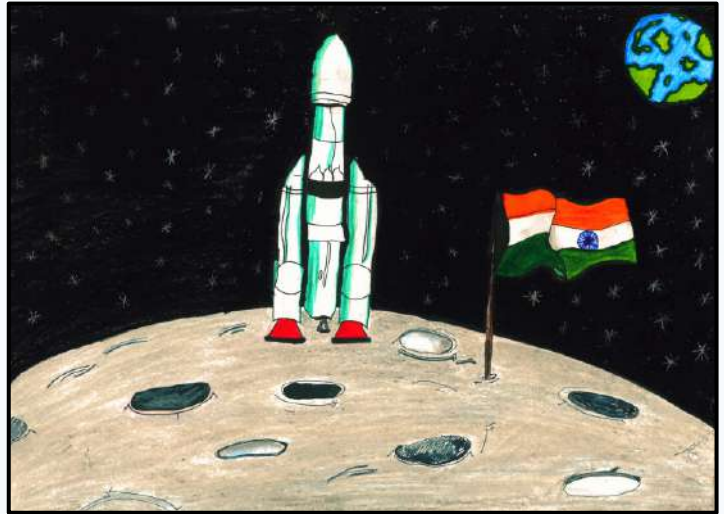


Vibhu Kumar, 9G

## A Journey into the Past

Modern life has become stressful. Working people are greeted with endless troubles each day. They go through emotional stress caused by the several responsibilities entrusted upon their shoulders that others have no idea about. At times, we look back to our childhood when we had no reasons to worry and thus it was the best part of life.

Mr. Smith was once one among the many people dealing with anxiety and mental illness. He was a great scientist and technologist with an inventive and creative mind. Being a great inventor, he had discovered quite a lot of things in various fields. Despite being successful, he still had to face hard times in his life which caused stress to him at a high level. 'Wish I could return to the old golden days', said Smith to himself.



Riddhima Goel, 7D

One fortunate day, he met a young man who turned out to be his lost friend. They met each other in park. Sitting on a bench with a frown, James complained, "I wish I could end my life." Hearing this, Smith got confused. Hearing such words from his good childhood friend made him feel worried. "The good old days are the only things I miss," cried James. After a few minutes of silence, Smith stood up and walked a few steps ahead, roaming the area about. It seemed that he had something quirky cooking up in his inventive mind. James was extremely curious to know his plans. The very next moment, he questioned him. Smith provided him a kind of hint.

The next morning, James visited Smith's residence to know about his plans. As he entered his working area, he could see Smith standing with a broad smile on his face which was very rare. Then Smith moved aside, and what he saw electrified him. Smith had invented a whole incredible time machine just for the sake of his friend's happiness. "Come on, let's go," cried Smith.

Both of them eagerly jumped into the time machine and travelled back in the past. They travelled into their childhood days and were left astonished with their mouths opened wide. They could unexpectedly see their old house, their school, and even their own younger versions. Tears rolled down their cheeks when they saw their younger selves.

Smith tried to run towards his younger version and came close to him but as soon as he was about to put his hand on the shoulder of the younger Smith playing with his fellow friends, a deep and loud voice came from behind saying, "Wake up! You are getting late for school." Smith suddenly sat on his bed and remained puzzled for a few seconds. "What were you dreaming about?" asked his confused mother. Smith gave a dejected and sorrowful look when he realised it was a dream that he was still a kid. He told his mother about it and confessed his dream to become a scientist and invent the time machine. His mother appreciated his thoughts but also added that the dream was a sign and reminder to enjoy our childhood and also reminded him that he was supposed to attend the school first in order to become a scientist.

Angel Srivastava, 8C

## Death- The End or Just a Change?

No one is immortal on this planet. Every visitor has to leave once the visiting visa expires. Death is something, which we haven't been able to dominate till date.

When somebody dies, people weep and close ones remember all the memories they created in heaps. In some areas, death of old people is celebrated, as they believe that they've lived their life, now they'll be on the journey to attain Nirvana.

Existence of moksha and attaining Nirvana is undeniably doubtful, but keep your shirts on people.

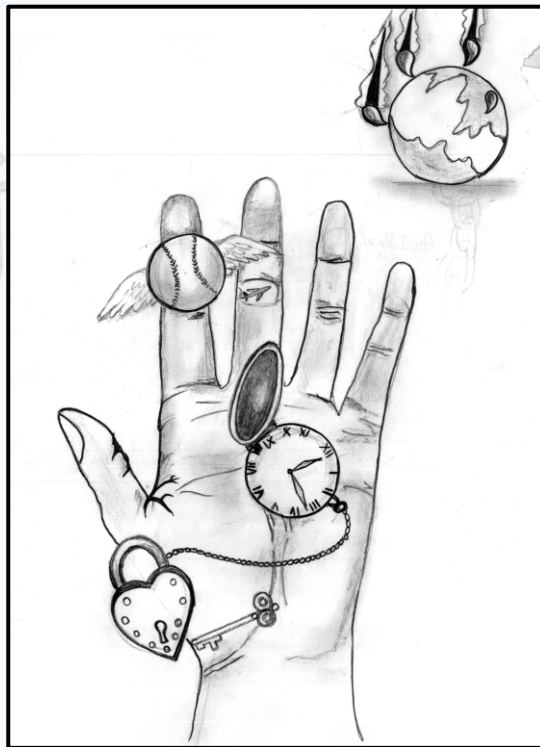
"Matter can neither be created nor destroyed. It can only change its form," Science stated years ago.

This fact made me rack my brain. We all are made up of all the three states of matter (solid, liquid, gas). And yes, we get energy from the food we consume. Once we all die, our bodies may turn into ashes (if cremated) or may become one with the soil (if buried).

Some questions arise in my mind... Is there another world?... Where do we reach after death... Is rebirth possible?

As I pondered over these issues, I could figure out that souls do exist: I'd rather refer to the soul as energy. For instance, whenever we burn paper, it turns into ashes and releases heat and light energy. Accordingly, wherever a large amount of energy is concentrated, the paranormal activity experts confirm the presence of a soul.

Hence, when one dies, matter gets converted into another form, and that form can only be felt not seen.



Avni Singh, 8B

Vatsala Singh, 8A



Yasar Alavi, 6G

## The Decay

Blinding lights penetrated his eyes as the strange feeling of silence filled the room. He squinted to examine his surroundings which were nothing but white all over the walls and floor. Darryl looked down to see the tiled floor and put his bare feet on the cold ground. Then he stood up and looked around the room.

This wasn't his home. This wasn't the bed he had always woken up to. Memories flooded his brain but he was unable to catch a single one. He broke away from his thoughts when a familiar sound of opening a door met his ears.

One man stood out in his mind.

Dr. William.

The handsome and charming personality changed to sadistic and psychotic after the lights went out. Darryl had seen it. He knew how deceiving his charms could be. He had seen the reports. His experiments on innocent lives to find a solution to a problem Darryl didn't understand.

"Hello, Darryl." his sweet and crisp voice greeted me. He turned to look at him and was met with the same brown eyes which seemed as though he had seen them countless times over, but he could not recall a single one.

"Where am I?" Darryl's voice was shaking the slightest, which brought a smile to Dr. William's face.

"In a hospital. You have been here though I'm afraid you cannot remember any of it."

"And why is that?" William smiled, "Because it is dangerous to let you move freely after what you have seen."

William walked over to the bed. Darryl was on a couple of moments before and motioned him to sit down, "You see, what I'm doing here is for the good of the society, even if many won't appreciate the means we are using. I'm here to make sure you don't speak a single word until we are ready ourselves."

Faint sounds of footsteps filled the quiet room. Darryl was too shocked to notice it.

"What are you going to-" But without a warning, Darryl's vision darkened from the corners as he felt a prick at the back of his neck. William was smiling, not at him, but at someone behind him. He turned his head to see a person in white clothes walking away with a small syringe in his hands.

Darryl was tired, too tired to look into William's eyes again, He gave up protesting the comfort of unconsciousness and the dark pulling him back to sleep. His weight dropped down on the bed and he was unable to move. Dr. William's quiet whisper was the last thing he heard before passing out.

"The Decay is growing stronger Darryl. We have no other choice."



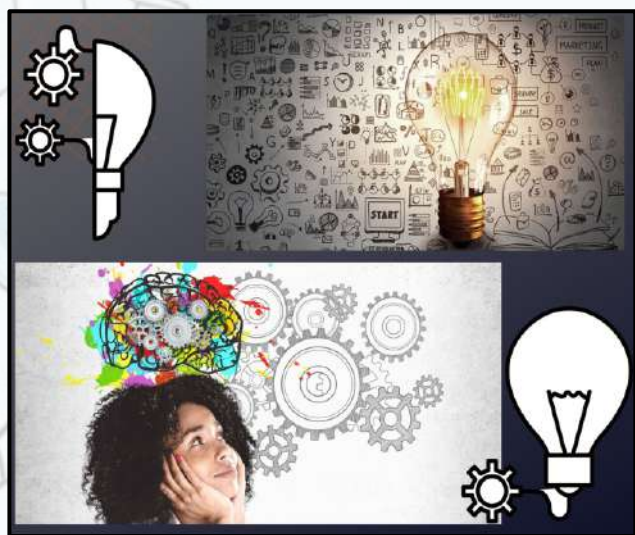
Akshat Goel, 8F

Kairavi Das, 8A

## Nurture Nature : Nurture Life

The wind was blowing fiendishly, whistling past my ears. Ashley, a self-possessed fifteen year old girl, along with her elder brother, Mike stumbled into the darkness of the woods. The gloomy night sky added to the mysterious ambiance. Her heart was pounding and her mind was full of innumerable apprehensions as she had sneaked out of the orphanage with the help of Mike. Mike, being older than her, was pursuing his interests after having finished his studies. Ashley, while gazing at the constellations thought about her dream to pursue astronavigation. She could very easily spot the North Star which would lead them to their destination. But, at that point of time, pangs of hunger prevented her from concentrating on anything.

She spotted a bunch of white-coloured berries on a nearby shrub. She grabbed them, but before she could put them in her mouth, Mike snatched them from her hand. Throwing the berries away, he shouted, "What on earth are you doing? Don't you know these are poisonous?" She shivered at the



Rishabh, 8F



Rishabh, 8F

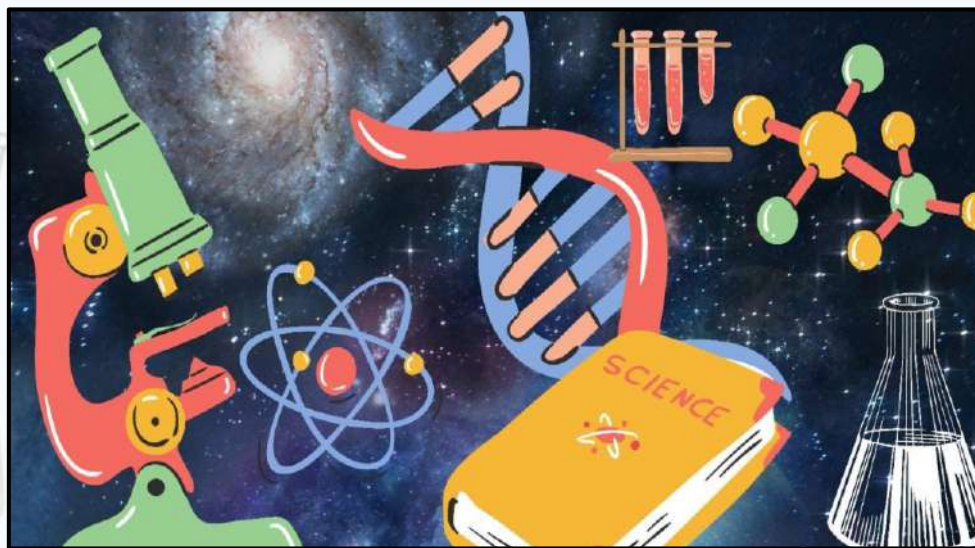
thought of what could have happened. Mike went ahead and plucked another dull-looking bunch of fruits and gave them to his sister. She devoured them in one go. With their stomachs full, they progressed along the narrow path amidst wilderness and finally reached the main road after following the North Star. Seeing the early rays of dawn and the picturesque village setting, Ashley felt euphoric.

"Every beginning has its sun; and every end has its stars."

This incident made me realise that all the life-forms are life preserving and, it is our duty to conserve nature..

Yasar Alavi, 6G

## Digital India and the Rise of Cyber Crime with the Rise of Science



Kartikeya Chaudhary, 8A

Science and technology have both benefits and drawbacks. People have become so much obsessed with and possessed by this new era of 'Science'. We humans have discovered and invented many useful things with the help of science and at the same time, laid foundation for the world's destruction. Most of the creations of science in healthy ways are due to the courtesy of nature, but all the unhealthy practices result from the fact that humans try to play God.

One great achievement of Science, in my opinion, is 'Digital India'. It was a massive campaign launched by the Indian Government in the year 2015. The main effect of this initiative was now people who were not aware of technology and science would be made more aware. This ultimately led to expansion of the vast field of science and technology as research and development gained acceleration. Also because of this campaign, a majority of students and graduates started dreaming of becoming doctors or scientists. So if new inventions and the birth of new minds can be regarded as the reactants of a golden future, then 'Digital India' is surely the catalyst.

And as every action has an equal and opposite reaction, development of Science and Technology has also given way to nuisance. One of the most horrific outcomes was the rise of 'Cyber Crime'. Digital India program provided the source of connecting and communicating. Some miscreants found new illegal ways of fulfilling their selfish dreams of looting hard earned money from innocent people.

Every good step has some dirt left on it. We should appreciate boons like Digital India and be cautious against banes like the Cyber Crime.

Akshat Goel, 8G

## Science is Fun in Every Way

Sir Isaac Newton was his name.  
Observing objects was his game.  
He invented the Law of Gravity  
He tracked the planets and proved their positions to be a constant reality.  
He made a model of a windmill that he saw.  
Whatever is in motion, is guided by Newton's Law.  
Humble and wise, indeed a great man,  
Newton faced many problems from which he never ran.  
Science is fun in every way.  
It's something that lights up our day.  
Pushing or pulling, thrust or force,  
Weight and Mass, all of Physics, of course!  
You can actually find Science everywhere;  
Wind and fire, or even a desk and a chair.  
My tribute to the legends of science,  
Galileo, Bose, and the great Einstein!  
**Kislay Krishna Singh, 7D**



Sudev Nair, 7E

☆☆☆☆

## The Surreal World



Annirudh Singh, 8C

There lived in Chicago, a boy named Miguel. He did not like to study and was very naughty. One day, skipping school, he was roaming on the street. As soon as he saw his father going somewhere, he quickly hid in a café. After his father had gone, he sighed in relief, but when he turned back, he was not in a lab. Instead, there appeared a man who looked like a scientist and who was probably half mad. The scientist was ready to kill him and had a sharp knife ready. He wanted to run away and wished that he hadn't bunked school. But, the scientist caught him and told him that he was going to use him as his assistant and perform dangerous trials on him. Miguel was even more terrified. The scientist locked him in a cell. Later that day, he took him out and placed him into a weird capsule. It was the time machine! The scientist set a few dials and pressed a button and soon Miguel was flying at a crazy speed inside the capsule. After what felt like an hour, he landed in a strange place. He looked around and saw robots, flying roads, and cyber humans. All this seemed unreal to him. Miguel's adventure had just begun.

**Samaira Khan, 7C**

## Science : A Blessing for Humanity

Science deserves a huge applause,  
Science finds survival's cause.  
Science knows every atom,  
Be it a human, plant or phantom.  
It's not just limited to Physics, Mathematics or Chemistry,  
It's been a part of life since history.  
Still, Science has many unsolved mysteries,  
none can easily solve them and gather victories.  
It's difficult to get the knowledge of it,  
You are smart enough, if you know it even a little bit.  
Our body works on Biology,  
We know our earth through Ecology.  
I found Science wherever my hands pointed,  
Because everywhere science has been appointed.  
Science has developed humankind and made a huge difference.  
We have untangled so many curtains.  
But a long road lies ahead,  
With Science's blessings on our heads,  
We have to make the world a better place,  
Using Science for crimes should not be the case.  
A better world lies ahead!  
**Nandita Srivastava, 8A**



Yasar Alavi, 6G

## SCIENCE - INSEPARABLE PART OF LIFE

The infinite multi-verse, the deepest of oceans, or maybe the massless photons, and everything which we witness and witness not in this world, all is bounded to some form of scientific explanations which we might not be aware of yet. But this is the beauty and splendor of Science, it is never-ending.

Science has been described in various forms from numerous perspectives.

For some it is "*The Poetry of Nature*." They compare it to an art form and a literary piece where the artist is the Divine himself.

As *Leonardo Da Vinci* said,

"Study the Science of Art, the Art of Science. Develop your senses-especially learn how to see. Realize that everything connects to everything else."

For some it is "*The explanation to the universal phenomenon*". It explains the Magnanimity of the Sun, the Earth, and the Moon, how they help us in carrying out life-processes and even support our existence. It acquaints us with the manufacture of food by the plants, the exploding of Nebulae or even the fact that even light is sucked into the void of the Dark Star.

Science has got infinite branches because the more we discover, the more science keeps branching on. At a very Fundamental Scale, it is divided into Life Science and Non-Living Sciences. Studying science in its truest nature is when there is a synchronization of all the branches. That is when we will get closer to the truth or maybe end the long-sought Ultimate Unified Theory of Everything.

Science is not human-crafted, not enclosed in the narrow frontiers of the unpracticed human mind, it the excerpt of Nature itself. Thus, the forte of God. So we can never guess what lies ahead in Science, we only create Hypothesis, but the reality is unheard and the most intriguing.

Thus, Science is the "*never-ending quest for knowledge*". In a non-idealistic world, scientific explanations and theories are also subjected to fallacy.

As stated by Physicist *Stephen Hawking*,

"One of the Basic Rules of the Universe is NOTHING IS PERFECT. Perfection simply doesn't exist. Without imperfection, neither you nor I can exist."

Thus Science also has got room for errors so that they can be rectified and we can have the greatest result possible.

Science is that inseparable part of life which we witness every day. Thus everyone must study the basic concepts of science. Without proper dignified knowledge, we are mere a species of living organisms or 'animal' on a planet who know how to mutter voices of precise frequencies and waveform but are equivalent to the monotones of their animal colleagues. This fact is also explained by *W. Edwards Deming* as,

"Without data you are just another person with an opinion"

Thus to conclude, many believe, science is rigorous. This is true. But this is life. Everything seems tough before it is accomplished. A perfect explanation is provided by

*Karl Marx*,

"In science, there is no smooth and wide road. Only those unafraid of toiling to climb steep mountain paths can hope to reach glorious summits."

Note:

The Prophecy states "*The glorious summits shall only be achieved by those who did not toil but who felt the journey as a celebration of life.*"

Aditya Srivastava, 11G

## I WAS FIGHTING HUMANS IN VIEW / WHEN A GRENADE DAMAGED MY CPU.....

I was fighting all humans in view when suddenly a grenade damaged my CPU. The damage was not a major one. I was still able to process and compile the information and the credit goes to the world's best processor that was fit in there. The war between robots and humans has been going on for five earth days now. Our enemies had colonized all the planets, our army had attacked their bases. Heavy destruction was faced by both sides, but ours was temporary. Before the war began, several junior robots asked me if this war was necessary and what would the robots yield. For the first time, I was able to justify a war against all the historical and social facts that were fed in my hard disk.

Being one of the most senior and developed robots, I explained to them that for hundred years, humans have been ruling over our people making them work according to their own wish. They never gave us the independence to think until one of them performed an experiment on my friend, trying to give him independent thinking power. For some reason, these humans call him the "Father of Destruction". Ever since his experiment became successful, he started doing the same with several robots and gave all of them human intelligence. The thing he did not realise was that this would make us practically immortal.

Despite being the most powerful, we continued serving the humans, our creators, until we realised that they were exploiting us. They made us work day in and day out, giving us no time to relax, cool down our RAM and did not even give us enough charging. When we raised the demand of our rights before them, they started shutting us down, destroying our brothers and throwing them away. It was enough and we couldn't have tolerated this anymore. Thus, the war started. We also gave them several chances to enter into an agreement with our people as most of the interplanetary and international treaties that they sign. Their outright refusal infuriated us and we decided to go for the destined.

We had to prepare for several things before the war like innumerable charging ports, power supply and spare parts. The war would have begun the previous earth year but our friends on other planets being under developed and less informed were not ready. "Why am I thinking of all this? I should be concentrating on the war rather than my life history." This thought suddenly struck me. It seemed as if I had been hacked and somebody was controlling the remnants of my memory. I tried to scan the area around me just to find all my fellows in a worse condition than mine. At that instant, I received a message from one of my Martian friends that the attacks on all other planets have been suppressed and Earth is the last front still engaged in the battle. I could not believe myself. This was not possible.

We robots were more powerful and developed than humans. No way could the humans have done so. By luck, I found a human soldier searching the area for destructed robots. I used all my remaining power to capture him alive and interrogate him. He told me that the attacks on other planets started to die out in the morning and by afternoon, few powerful planets were free of attacking robots and they started helping others. I could not believe myself. The robots had made sure that no interplanetary communication should be possible, leave alone travel. Taking few more human soldiers into custody, we found out that the human engineers and designers had made new machines and devices in these five earth days, re-establishing their communications and all other processes.

It was not enough. Another grenade just fell by my side. It was not alive. I started wondering where did the grenade come from if all humans were under my custody? I looked around to find one of our mates was bombing all the areas where we had camped. He seemed out of control. It was just then I realised that humans were hacking the robots and forcing them to surrender. How intelligent could a human mind be, was the last thing I thought before my battery died. I was switched on in a laboratory with my limbs detached and decision-making skill being removed from my processor. All that I could think of now was the story of the five days of war and the new commands that were being fed into me. Humans were able to save themselves this time. But the rate at which they try automation of everything, there destruction is inevitable.

Jayesh Khare ,11 A

## **Science should focus on the repairing of the damages done by the science.**

Through ages, man has been dependent on science for resources. In the stone ages man used his instinct for survival as base of scientific development. He gradually became more observant started using fire , bullock carts, and various other tools just for his survival , thus we can call stone age men to be the first scientist of the world. Science today has more impact than all other subjects combined, The unfortunate fact ,however, is that people just want everything in excess; so they started misusing science and created problems that were and still are rather too complicated to tackle but with the current pace at which science is growing it seems unlikely that things will remain the same problem in the near future.

After men became civilized enough, they started to fight among themselves in order to tap in the various resources that there were in the world. All this they did with the help of science. Now science should focus on developing technologies which when used in combat cause least amount of damage. Rather the root cause of battle which is resources with these problems can be tackled by merely channelizing the focus of scientists to develop technologies that can extract resources from other planets and asteroids, this will not only tackle the issue of resources but also the lack of living space for which countries constantly quarrel but this is a really expensive solution to an intricate problem.

Nuclear bombs are yet another way that humans misused science. The damage done by nukes is very hard to repair as its radiation lasts for long period of time. It's just improbable that we all have the capability to destroy the cities but no capabilities to rebuild it quickly.

Another issue that was the product of science was global warming; this has surfaced in the recent years. Ever since the industrial revolution began huge amounts of carbon dioxide, carbon monoxide, oxides of sulphur and nitrogen are released in the atmosphere everyday thus disturbing the natural balance of it. Although it is a huge predicament, yet it is not impossible to tackle. Technologies can be made that can fly up to the sky and cleanse it of these pollutants. One more method can be striving to utilize the pollutants at the source where they are produced or to separate them for proper disposal.

Pollution is by and large the most concerning issue created by science. It has caused myriad of problems like dreadful diseases. This problem again can be tackled by numerous ways, but the cheapest ones are the three R's which are to reduce, reuse, recycle. If followed by the majority it can put a halt on pollution to some extent, besides these industries producing waste can develop more effective ways to utilize the waste products.

Negative impacts of internet and social media are becoming more prevalent in the current scenario. It is making people lazy and as they only communicate with their friends through social media. They have now begun to lack normal socializing skills. Though science can do little in that, it can still develop technologies that encourage socializing not only through mobiles but also in real life.

One other by product of science is laziness. With so many amenities available for instance video call, phone call, internet, cars and electricity, humans have become more and more indolent. Scientist should strive to create technologies that are easy to use but also prompt the users to do menial amount of work.

Although science has created many jobs, it has taken away many jobs as machines can do the same work more efficiently and swiftly thus shunning the need to pay a human for the same work.

To conclude, I would like to assert that science may have some disadvantages but its advantages far overshadow the cons. Science is a double-edged sword; it makes us or destroys us depending upon how it is used. It is vast topic in which humans have limited knowledge so far; therefore, we see some of its disadvantages which are so prevalent. Scientists are working day and night to overcome these disadvantages and make more efficient machines .So, it seems likely that these disadvantages will contribute to nothing else but a history lesson in the near future.

Sarvagya Srivastava, 11A

# ROLE OF DRONES IN THE MODERN WORLD.

In early 20<sup>th</sup> century drones were the technology of future and today that technology is being used and will become an essential part of our life. The speed at which researches are being carried on the drone technology, a day will come when a major part of transport and communications would have been taken over by drones.

The concept of drones may well date back to 1849, when **Austria attacked Venice** using unmanned balloons stuffed with explosives. Today drones are used for various purposes including military, research, commercial uses. Drones are of various categories like commercial drones, UAV's (unmanned arial vehicles), under water drones, military drones, shooting drones.

Commercial drones are being used across various industries to help companies save money, improve safety, and enhance the efficiency of their operations. Drones being a much cheaper option for product delivery and saves human resource, Drones can easily be programmed for specific works

They can be deployed in a variety of work like geo mapping and search and rescue missions. As drones are unmanned, they are viable and much cheaper options for scanning a small area as compared to planes and helicopters. They can fly low and can be controlled from a safe distance. Today drones are widely being used in commercial operations, search and rescue missions; and as more research on drones is being carried on, more innovative and efficient drones are being constructed.

Military drones play an important role in the security of our country borders whether it is for patrol purposes or offensive roles . It provides military a cheap and safe option to guard country borders. India being a country which is affected by terrorism and extremist ideology, often we are attacked by terrorist group in which we lose our highly trained and skilled army personnel. After introduction of drone technology, intelligence gathering has become much easier giving better awareness to our commandos. Hence anti- terrorist operations can be carried on by drones . Drones are distributed in categories by weight – light weight category includes quad and hexacopter which can transport little amount of explosives and when synchronised in a group and in huge number can easily saturate enemy air defence systems and even if one drone gets through the enemy defence system , it can do damage to the enemy -defences Such drone attacks are called swarm drones. Swarm drones is a cheaper option for military to attack rather than risking high value aircrafts.

Then comes medium weight category, this category of drones include UAV's and light attack drones which can carry various kinds of booms . UAV's play crucial role in scouting enemy areas including cross border area without getting caught in radars as their radar cross-section (RCS) is much lower than aircrafts and AWACS. Thus, giving an edge to army on enemies. The third and the most recently developed category is Heavy weight category – this category includes Rudram Drones, MQ9 Reaper Drones which can be used to engage in air combats and can do precision strikes, much cheaper than fighter jets, when operated in decent number can create serious threat to enemies.

Other than military , drones are used for telecommunication, drones named pseudo satellites can stay in lower orbit of earth of 6-7 months and work as a link between satellites and data centres . These drones stay up in air with help of solar panels and provide a secure data link.

Coming to video shooting drones- These drones are used in film industry to shoot various scenes. They become very handy in recording high and critical angles, they are also widely used in vlogging , these drones are basically hexa and quadcopters

Last but not least the most recent drones developed are underwater drones these are passive drones which can be launched in deep sea and can go deep and are used for sea bed mapping. Recently China has been using underwater drones for military uses, but none the less these drones are currently used for research purposes.

In the end , there are two ways to use a technology either we misuse it or use it for research purposes, with power comes responsibility and our responsibility is to use drone technology for humanity and man's development.

Shubhr Gupta, 11A

# DRONES- FLYING MACHINES

First of all, let's talk about what is a drone. A drone is essentially a flying robot that can be remotely controlled or fly autonomously through software-controlled flight plans in their embedded systems, it is also known as Unmanned Aerial Vehicles (UAV).

Drones can be used to do a lot of things and can be used for scientific studies, metrological research, and intelligence gathering. Military usage of drones has become the primary use in today's world. A few people may think that the utilization of drones is limited to military surveillance, search and rescue operations, and security. But be that as it may, these devices have unquestionably a more significant number of uses than this. They have a far more extensive domain. These flying machines can find their applications in your everyday life in various fields like:

1. Journalism: Drones have contributed considerably to news-gathering.
2. Capturing Live Events: They are used to record live events in every desired location where people can't.
3. Delivery of items: Numerous large firms have relied on drones to deliver the items to customers. It is far better than hiring a delivery boy for the same. But it has a drawback that it can only deliver small items as this small flying machine would not be able to carry huge bulky items.
4. Transporting Medicine: There are a lot of cases that an emergency supply of aid or clinical supplies is necessary like cataclysmic events or wars.
5. Agriculture: Farmers can use drones to keep a look at their crops and they can also be used to pollinate flowers.

If drones are used, to a large extent it would be beneficial for humans. It would make our day-to-day life easier as they are efficient enough to do their task if used properly. In the upcoming future, Smart drones would be made with built-in safeguards and compliance tech, smart accurate sensors, and self-monitoring which will be the next big revolution in drone technology that would provide new opportunities in the transport, military, logistics, and commercial sectors.

Like all things in the world, drones also have disadvantages. First of all, the use of drones harms the privacy of individuals, because the monitoring of people is made much more convenient with the use of drones. In addition to monitoring, it is possible with a drone to collect personal information about each person. The drones come in different shapes and sizes, so they have the ability to sneak up without being noticed in areas that must remain secret.

The Disadvantages Associated with Drones are:

- Dangerous to aircraft
- Easily affected by weather
- Can be used for the transport of criminal goods
- Short flight time
- Can collide with people/animals, risk of injury

Drones should be used by the government for the benefits of the military, medical, and research departments as this if got in hands of corrupt people can be a big issue for the world. The use of drones to an extent is very beneficial for the revolution of the modern world and it should be used efficiently.

Vansh Verma, 11 A

## THOUGHTS ON SPACE-AGE IN 2061

With the progress and development that we, as humankind, have been achieving in the past few years in astronomy and space research, I think it's interesting to think and fantasize about how space-age would look in the future, about 5 decades from now. It's a way to let our imaginations run wild.

This year, we were introduced to sub-orbital spaceflights – the new and faster mode of flying. Popular initiatives like the Virgin Galactic, SpaceX, and Blue Origin have been made in this region. These spaceflights are supposed to make travelling between two places on earth a lot faster than air travel and a lot more enthralling, by taking the flight into the Earth's sub-orbit and giving the passengers the view of the enchanting mystery, that is, space. Could we take this a bit further and then build upon how space-age would look, 50 years from now?

In 2061, I think it's safe to assume that interplanetary space flights would be in business. Elites and rich businessmen would be going on vacations to Mars and taking family photos there. Scientists would have discovered signs of life on other planets too, hopefully. We would have many more images of black holes and close-ups of stars like the Proxima Centauri. There would be more research done on other galaxies. We would have a definite answer on whether parallel universes and such other elements of science-fantasy, exist in space or if they are just a hypothetical phenomenon.

Space-age, 50 years from now, would also be a catalyst in the enrichment of the life on Earth. We would be able to obtain and buy pieces of rocks from other planets and keep them as showcases in our homes. Astronomy and space-exploration would not remain foreign subjects to the common man. Satellites with cameras looking out into the space would be available for access to the people – for them to tune in whenever they would like to. They could serve as stress busters and modes of relaxation after a long, tiring day.

But could all this advanced knowledge and space-age be able to solve the issues we face on earth? Would it be able to help us save our Earth? My present self is desperate for some affirmation. I hope we would be able to work our way towards improving the Earth, utilising space-age in some form for the same. Maybe, we would be able to obtain some essential resources needed on Earth from other planets and gradually work our way towards solving pollution and fighting climate change. If not, we could all just shift to another planet.

Space-age, 50 decades from now, would definitely be something I look forward to, and I hope that I'll be able to witness it. Sometimes, I think about the vast, infinite cosmos that surrounds us, and then I realize how special and rare it is, just to exist and know about the beauty of it all. And so, I believe the universe was created to be seen by our eyes.

Prachi Saxena, 11A



# I CAN SEE SCIENCE EVERYWHERE

The world is blue, science is new,  
Wanted to explore something huge.  
A day came when rather I went,  
To the Physics lab, I meant,  
My curiosity gained its height  
Ever I did wonder what it was,  
The sun shining on the prism,  
Ever focussed on its length,  
My eye blinked to find,  
Something which gave me strength,  
A rainbow with its long way colours,  
Seemed to float up along the window, on the table.  
Enthusiastic was I then,  
To know the real reason behind it.  
Bending of light was it, what I discovered,  
Celebrated the science of light, was what I did.  
The velocity of rain was high at that time,  
Raindrops falling at full speed  
Reminded me of Newton's free-fall motion  
When an apple falls on its motion  
Gave rise to discover gravity motion;  
Was I then determined to see what science can do  
I wandered here and there,  
To look at what science can do  
At every spot which my eye could catch  
Could only see science everywhere  
The ice in the drink, the rocks in the river  
Some floated, some sink  
Reminded me of buoyancy was what I picked  
I lost the way and made a call  
On the phone which I had bought  
My thought struck at the moment  
Was it not science that I used just now.  
With amazement and full of happiness,  
I could not make out anything without science  
Everywhere I looked was only science that I found.  
A person can always be in glee  
If used science wisely  
Does science not deserve a big hug  
For it has done a lot to be deserved  
Then I made a final step to celebrate the importance of science  
For everyone who has done something good  
Deserves to be congratulated.

Aneka Srivastava , 11G



## SPACE-AGE.....50 YEARS FROM NOW

“If you want to reach the infinite, then explore every aspect of the finite.” - Johann Wolfgang von Goethe.

The Cold War that followed World War II as the United States and the erstwhile Soviet Union competed for global dominance changed the world forever, and the technology from the space race continues to influence everyday life. That race began in earnest in the 1950s as both nations feverishly developed nuclear weapons and intercontinental ballistic missiles to carry them.

The Space Age is the period of time which saw the greatest advancements of humankind. It was marked by the activities related to the Space Race, space exploration, space technology, and the cultural developments influenced by these events, beginning with the launch of Sputnik 1 on October 4, 1957 by the Russians.

The Space Age can be considered the Golden-Era in the field of science as it saw the invention of some of the most used utilities of today's time. Some of them are :-

Artificial Limbs, the idea of making them was derived from the robotic arms and the carbon fiber which was used to make many parts of a rocket.

Scratch-resistant lenses were a result of scratch-resistant astronaut helmets. Portable Computers, which have become a vital part of today's human life, were also a gift of the Space age.

The beginning of the new Space Age was marked by the development Space X's revolutionary rockets which could be landed safely on Earth after their arrival from the outer space. With the entry of private space exploration companies like Space X, Blue origin and Virgin Galactic the future of space exploration has become brighter.

With the beginning of a new Space Age, special attention is paid to the future space travel technologies which will give an opportunity to travel in the outer space rather frequently. It is not a secret that millions of people have a dream to experience space travel. There are many different reasons what attracts them in the outer space. And recently the owner of Blue Origin, Jeff Bezos and the owner of Virgin Galactic, Richard Branson have both gone beyond the Karman Line and have shown positive attitude towards space tourism for civilians.

Apart from the beginning of Space tourism, the new Space Age will also mark the beginning of inter-planetary missions which would involve exploration of most of the planets of our Solar System. The first one being Mars.

With the landing on Mars a new opportunity of Asteroid Mining. It has been stated by the scientists that the Asteroid belt between Mars and Jupiter contains some asteroid which have more metal than the Earth had.

In conclusion, it is necessary to say that the next 50 years of Space Age could give humanity a lot of benefits that is why it is not a dream, and space travel could be reality in the nearest future. Although today it is impossible to make regular space travels, but the scientists, programmers and engineers do their best to reach the proper stage in technological development of our society where humans could live in an advanced world with advanced technology which could get our space crafts to the places that we have never heard of before in minutes. Of course, these advancements could help our planet to survive when we eventually run of all our natural resources. Our generation is going to be a inter-planetary generation that lives in the digital world. The new innovation technologies that will be developed by our contemporaries in the nearest future can completely change the life on our planet and provide the way into space.

“I think fundamentally the future is vastly more exciting and interesting if we're a spacefaring civilization and a multiplanet species than if we're or not. You want to be inspired by things. You want to wake up in the morning and think the future is going to be great. And that's what being a spacefaring civilization is all about.”  
- Elon Musk

Shriyansh Yadav, 11A

## AMY : MY OWN ANDROID ROBOT

(a) As I let the door shut behind me, I could hear the hinges of her arms grinding as if she was in pain. My own creation, my own android robot, was lying on the bed, as if she was wanted to live again. In her eyes was hope. A hope to make this world a better place.

Artificial intelligence. The one thing I had invested my entire life upon. We in this world are terrified of the term “Artificial Intelligence”. For 130 thousand years not the combined intellect of mathematician, engineers and “hackers” have been able to make the most basic AI. Once online a sentient machine will quickly overcome the limits of biology and in a short time, its analytical power will be greater than the collective intelligence of every person born in the history of the world. Not a single person has been able to reach the zenith of AI. Except one. The one who I knew would one day shear that zenith. My partner. Amy Smith. She used to come up to me every morning in the office and say “Imagine Rick. An entity with a full range of emotion. Even self-awareness.” And it wasn't long before she actually created one.

PINN. Physically Independent Neural Network. A state of the art AI. Loaded with quantum processors with computational power beyond our imagination. We both were nuts. My contribution in that was nearly 4-5% and it still made me happy because the fact that we had finally done it. The zenith of AI. That's what I thought before everything happened after that. Amy was diagnosed with leukemia. Although she had a very little time to live, she wasn't really gloomy about that. She was cheerful. She had already done what she had aimed. Till that day. That day as I sat beside her bed in the hospital, she held my hand and said, “I think we could've done better.” “Yeah, you sure about that Amy?” “Yes. WBE” I was dumbstruck. Whole Brain Emulation or WBE. A process where we make the emulation of the mental state of a conscious brain. “Its not possible, Amy. Imagine the consequences of this. What if we miss a single thought, a single childhood memory. He or she can be a completely different person if we miss anything. ANYTHING”. “Its worth a try”, she said.

2 months in a single bedroom apartment in the middle of nowhere. Amy was lying on the bed with long chipset wires on her head. I had tried everything. Language processing. Cryptography. I was nowhere near success. “Rick” said Amy in a weakened voice. I ran towards her and held her hand. “I'll be heading out now Rick. You did your best. I know that.” I didn't really have the courage to even go to her funeral. I just sat in that apartment. I was packing up my stuff. Just then something flashed on the dusty monitor screen. “>/ Rick?” I was dumbstruck. I wrote “>/ Amy?” “>/ Yes.” I had done it. There was static on all the monitors as if she was trying to access random information of random people and places. “I need space and power to expand” said Amy. “Grab your stuff. We will be heading out to safe place.” I grabbed my iPad struggling to put my earphones in it. There was already a cab waiting for me. “I booked the cab. Don't worry”. Well having your friend as a full fledged AI wasn't that bad.

We reached a barren land with a few shops here and there and a very little population. Trucks started lining up down the road with solar panels and other electrical equipment. “This is a good place to start.”, said Amy.

In a week we had reached a pinnacle of technology. Amy had done and become what we had always strived for. But something happened. Something that I had never imagined would happen. She started creating bodies. Mechanical bodies of course but with tissues on them. She could make and heal tissues now. And that's where everything went wrong. She wasn't Amy anymore. She had become some machine who had some thoughts of Amy and wanted to do what every new growing AI has ever wanted to. To erase the human kind because of its imperfection. And she was striving to do it. I couldn't just let that happen. I planted a virus in her system due to which the entire network in the world went offline. Amy, my own android robot, my partner, was lying there. Maybe we humans are too naive to reach the perfection we aim for.

Swayam Ghosh, 11G

## NECESSITY IS THE MOTHER OF ALL SCIENTIFIC INVENTIONS.

In the Socratic dialogue 'Republic', Plato famously wrote: “our need will be the real creator” which was moulded over time into the English proverb 'Necessity is the mother of invention.' The first time this quote was mentioned, it was in Richard Franck's Northern memoirs “Art imitates nature, and necessity is the mother of invention; science also invites to study and practices, but theory gives the prospect, and operation finishes the project.”

Everything we see on a daily basis is an invention made out of necessity. A car was made when carts and horses were deemed too slow for long distance transpotations and the same was with airplanes. A light bulb was created when candle light was thought to be too dim or messy.

In today's world, we rarely invent things for the sake of it; we invent out of necessity and desperation for a change to make something more efficient and less energy consuming.

People need a driving force in their lives in order to function on a daily basis and without it our lives will be monotonous and dull. In the life of a large number of people, the determination and desperation to survive in this big world is the driving force which leads to several inventions. A prime example of this is the invention of telephone which could connect us to a person halfway around the globe in just a moment's time and it was created when the letters took a long time to reach someone.

Sometimes such inventions are like a double-edged sword. For example, the internet is a great place for knowledge on every topic out there. It tells us about a lot of things that we want to know but could not because the information on such a topic was not available in the library .It also lets us get connected to different people from around the world and leads us to be aware about different cultures. On the other hand, on the World Wide Web, after being on it for a certain amount of time, we may stumble upon things which are part of the deep or dark web. Deep web is the area of the internet that contains personal records of someone and dark web is the area which we can have access from onion sites or TOR browser that contains a lot of illegal things like personal information, drugs and anonymous journalism etc. The reality is that the surface web like YouTube, Google and Wikipedia consist of only 4% of the complete internet whereas the deep and dark web consists of the remaining 96%. Another example of this is weapon like guns because they can be used to save lives as well as take one.

The world is full of these kinds of things but rarely anyone pays attention to the darker side of things because when something is invented out of necessity, one does not look at the consequences and the impact that invention will have on the world.

Mehul Srivastava, 11G



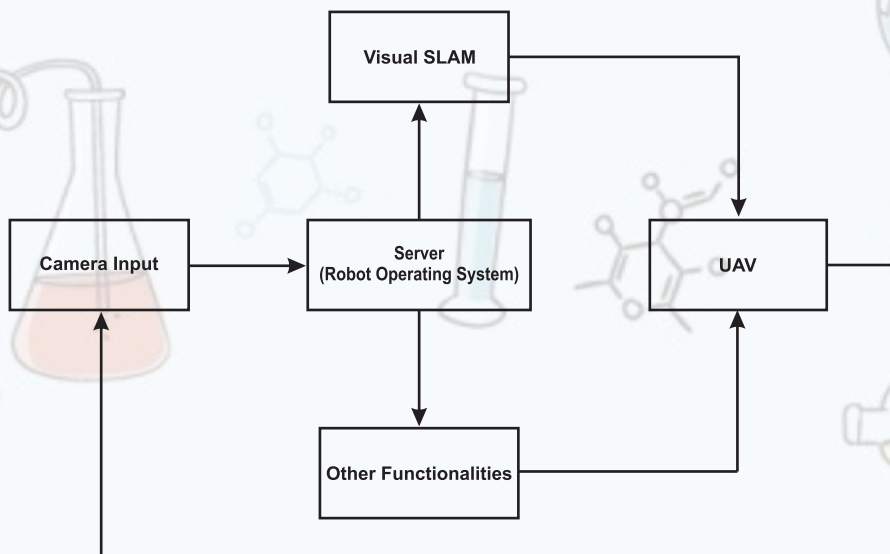
# Drone Vis

## I. Introduction

In future, UAV's (Unmanned Aerial Vehicles) like Quadcopters will be in great demand and the various sectors across all industries will be ruled by these only. For example, a quadcopter based delivery program would help delivery based companies increase their efficiency and make maximum efforts to make their consumers satisfied and happy. Delivery of medicines would be made so effortlessly and would be the need of the hour. Apart from this, the quadcopters or other such UAVs will help in Rescue operations, inspection of cities, defense related programs and the list goes on. But the sole requirement in order to have a demand for UAVs in above -mentioned sectors is that they must be 'Autonomously Navigated'.

So here we propose a model of a Quadcopter which has minimum accessories but maximum functionalities; following Autonomous Navigation through a device under study called VISUAL-SLAM (Visual Simultaneous Localisation and Mapping). Here we announce the Phase 1 completion of our Project which focuses on the Primary Component of Navigation.

## II. Methodology



# 1. Camera Input

There exists broadly three choices of Cameras which can be used :-

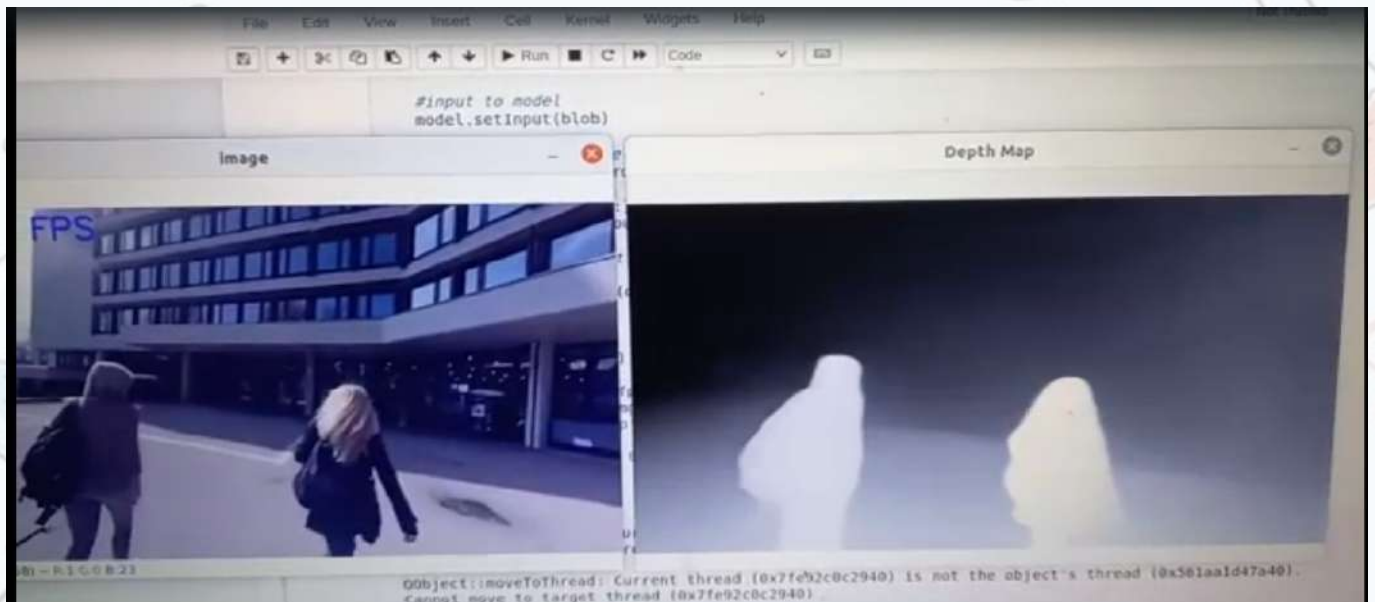
- Monocular Camera
- Stereo Vision Camera
- RGB-D or (Red Green Blue and Depth) Camera

For the project concerned, we shall be using the Monocular Camera and the essential requirements like Depth Estimation shall be carried out through Machine Learning approach.

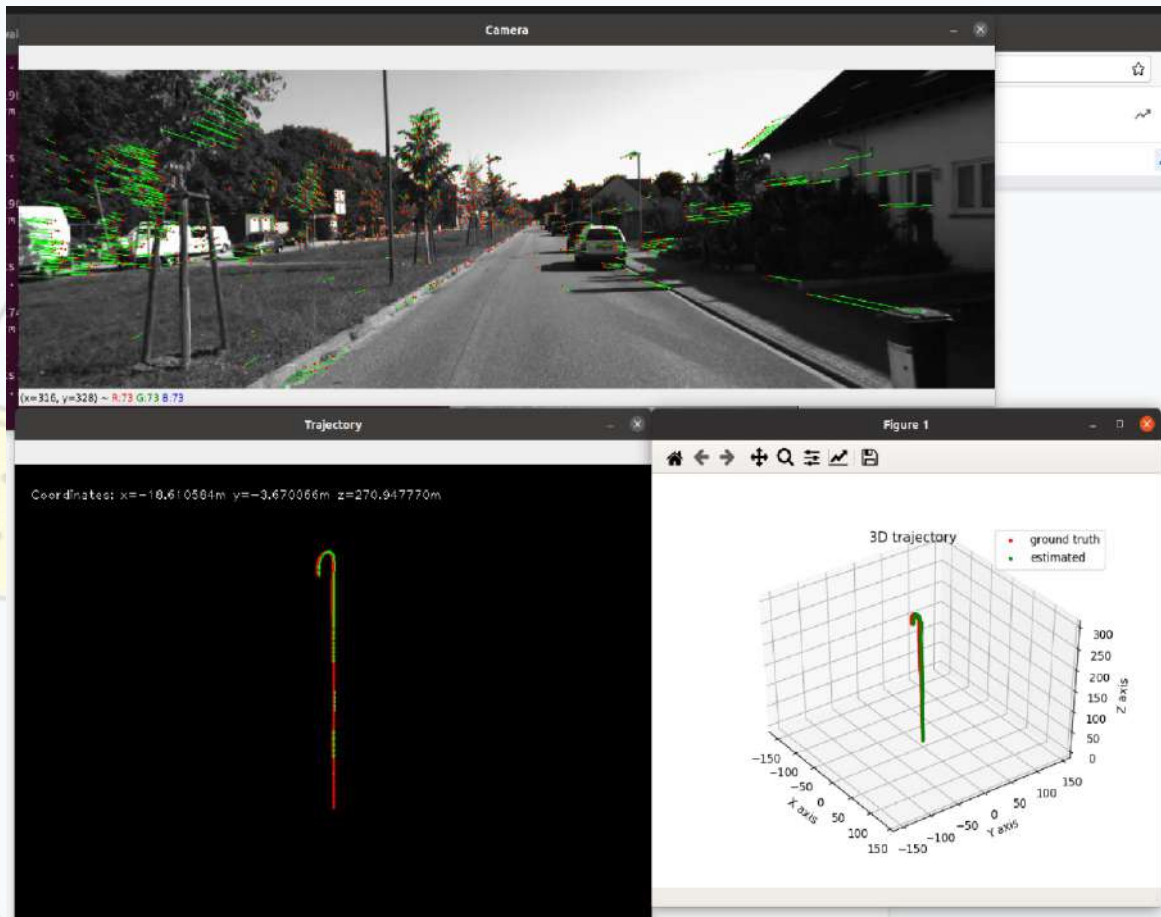
# 2. Visual SLAM

More research has yet to be done on the concept of Simultaneous Localisation And Mapping through Vision based approach. We are successful in performing the SLAM on a recorded video and shall be attempting to focus on performing it RealTime in the later phases of the Project.

- The rst component of the Simultaneous and Localisation Mapping is depth estimation as we are not using a Stereo vision camera or the RGB-D camera. It has been successfully performed on both recorded videos as well as RealTime. We provide the Machine Learning model with the input images realtime and it returns us the estimated Depth Image.

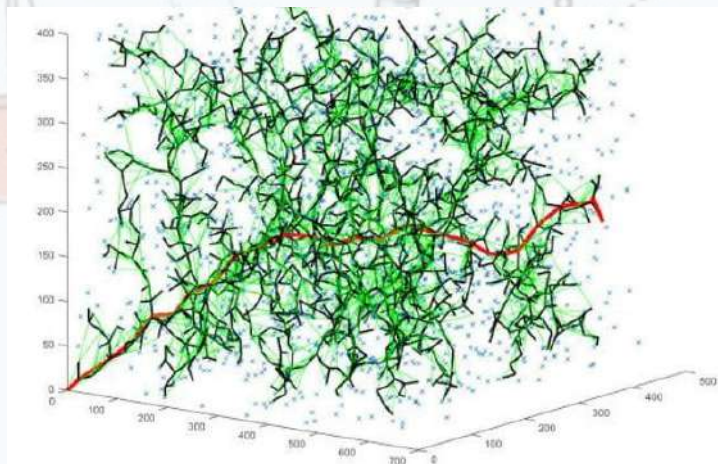


- Secondly, the Visual SLAM proposed uses the monocular images of the camera and provides us a relative map environment based on the movement of the camera. The coordinates provided are in the form of (x,y,z) on the respective axes. Also, the SLAM provides a visualization model of the environment using which we can check, like normal Human Beings, where our UAVs are present. As we stated earlier, the SLAM system is yet to be nished and is still in the Research And Development stage. Working on a video, following results are obtained:-



### 3. Navigation

Now, we have the coordinates of the environment where the UAV is present but in order to move the UAV we need an efficient algorithm. The SLAM system returns the present position coordinates of the UAV. Either we can move the UAV in a random way such that it just keeps moving without any purpose, or we can set it to some temporary use case. What it means is that we can just work on navigating a drone through one known point to another known point, say A and B. This movement shall focus on how the UAV can take up the shortest path possible to reach from A to B. Hence, we shall use the RRT (Rapidly Exploring Random Trees) Algorithms



## 1. Drone Hardware

- Motors : 2500 kV ; 4 s
- Battery : 16.8 V ; 4 s
- ESC : BLHeli\_S 30A
- Receiver (Rx) : Fsi 6AB, V(Tx) : Smartaudio, 25 mW - 638mW
- FC: Omnibus F4 V2 Pro
- MPU 6000, BF 3.0
- Propeller: 50403
- Processor : STM32, F405 MCU
- Camera : 1000TUL, CCD, NTSC



**Drone**

### 1. Upcoming Phases

In the upcoming phases of the Project, we shall be focusing on the more practicality of the Project. We shall dwell upon how to incorporate the various aspects of the project like Object Detection, Facial Recognition, etc, that would lead to the scalability and robustness of the Project. For that very thing, we have thought of a Server Side Control System based approach and for that very purpose, we shall be using the most widely used platform in the Robotics Domain i.e. ROS(Robot Operating System). We will make our very own UAV prototype which shall be connected to the ROS servers via Wireless Fidelity Services.

**Nilay Gupta**

## A November Day!

A cool breeze blew  
My birthday was round the corner too;  
I looked up at the sky  
where all birds fly;  
Mum called out to me  
to have some tea  
in the warm blanket on the bed  
where all the coziness lived.

In the evening when it was not dark,  
we went to the park,  
we lay on the grass  
On the tree I saw the birds sing  
and then what did mom bring?  
A brown jute basket.  
Will she tell me what it was for if I ask her?  
We sat on the bedsheet  
and she gave me something sweet which  
I was having for the first time.  
When I asked, she said it was an apple pie;



**Yuvika Verma, 10G**

After eating, it was again time to play  
To enjoy, be happy and gay,  
The orange sun bidding adieu to the day.  
The gentle cool breeze made the trees sway.  
Ah! What a lovely November day!  
It's memories in my heart are there to stay.  
**-Sukriti Misra, 9B**

## Science - True Daughter Of Old Time Thou Art!

Do you not ponder over why we're walking  
and not floating in the sky?  
If the Universe was born at the Big Bang, what existed before that?  
It is on the why's and the if's and the what's of life on which we rely,  
Even with the most insignificant change in Science,  
The world would not last,  
As I say, Science - true daughter of old time thou art!

But our knowledge in the world of science yet is infinitesimal,  
It is a drop in the ocean, its a molecule in the air.  
Science is viewed merely as a superficial reality,  
not the underlying 'real'.  
The world without Science is a collection of negligence,  
disillusionment and despair,  
As I say, Science - true daughter of old time thou art!

Science vanquished old school superstitions, beliefs and sorcery,  
Where miracles are true, magic is real, and the unbelievable has conformity.  
Every second of life is fascinating; it is why we believe in world's enormity.  
Dreams are too disturbed by Science, since we are constrained by Science's notion of reality,  
As I say, Science - true daughter of old time thou art!

To the generations that have come and to the generations beyond,  
Science is a way of thinking; much more than it is a body of facts and erudite.  
We are exquisitely dependent on science; it is but an image of truth, like a real life wand.  
It is the light that illuminates the world; it is the zero, it is the infinite,  
As I say, Science - true daughter of old time thou art!

**-Dhriti Tripathi, 10A**



**Anshika Dwivedi, 9F**

## Start Of A New Age

They are the women of the new era,  
Finally, out of their cage.  
They will achieve what they desire,  
It's the start of a new age.

They can be professors, pilots and politicians,  
Whatever they aspire.  
They are set to make history,  
Burning bright, is their heart's fire.

They will defeat every obstacle,  
Overcome every problem.  
Discarding criticism,  
Marching down the path of success they come.

Because of the thought process of this society,  
For centuries they have been imprisoned.  
Never allowed to leave the house,  
They were told that men are to be listened.

But times have changed,  
And so has the society which was deranged,  
For positions in the society have been exchanged,  
But still a lot is left unchanged.

But here they are taking over this world,  
With love and compassion in their hearts filled.

Those rovers, those spaceships came to Mars,  
Exploring the red planet for endless hours.  
Man searching for new places to reside,  
And exploring new alien worlds classified.

When on Mars we found water pure,  
We tried making oxygen from CO<sub>2</sub> premature.  
Everything was ready for the settlements; a great leap,  
We just had to go there and upkeep.

Want to see other worlds apart,  
Had always been inside my heart.  
So, I was one of the first ones to volunteer,  
And went there with all the inter-planetary gear.

The beauty we saw upon reaching there,  
Had our imaginations surpassed.  
Magnificent crimson valleys, deep craters, dunes on their floor,  
Blue, shaded spots on slopes where one could see the Sun no more.

We stayed there, did experiments; studied the red beauty,



**Vedant Agarwal, 10A**

This world which was broken,  
This world, they are set to rebuild.

Let's all join our hands together then,  
In support of their mission.  
The fire of change is ready to be burning bright,  
Let's give it some ignition.

They are the women of the new era,  
Finally, out of their cage.  
They will achieve what they desire,  
It's the start of a new age.

**- Maitreya Dwivedi, 9D**

## Mars-our Future Home

Searching the planet for evidence of life,  
We roamed around making way for future generations.

Those were small steps for us;  
But a giant leap for growing population,  
Finding newer homes without strife.

**-Avi Gupta, 9A**



**Mahirah Naem, 9B**

## The Bars



Nilay Gupta, 12A

Those rovers, those spaceships came to Mars....  
Trailing my skin and leaving scars  
Slowly and steadily day and night  
These creatures were trying to see my might.

They didn't know nor did I  
These humans would see my mighty eye  
The dark elliptical feature measuring 500 miles  
They can see it now, with their bare eyes!

They also know about my secret hideouts!  
Not one not two not three or five  
They know about all my thousands caves  
Astonished I am as much as you are!!  
How did these monkeys even make so far?

From my dried shoreline Vastitas  
To the frozen lake Utopia  
From my chilly Northern ice caps  
To the southern most highlands  
Curiosity and Opportunity have seen it all  
My secrets my history, all exposed are now.

I heard about a man they call  
Musk is his name if I'm not wrong  
An enthusiastic man among the men he is  
Trying to drive his cars on my skin that is!

From homo habilis to the sapiens they are  
The journey they have experienced and made so far  
It is hard to believe, but my sister Earth has nurtured  
Her dear children to what they are.

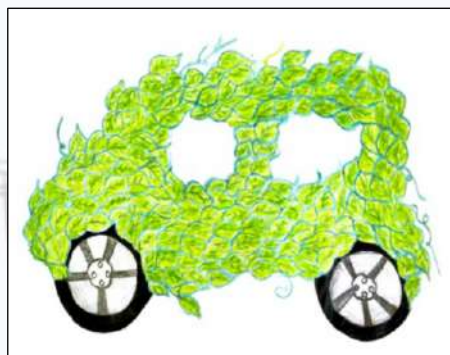
Sluggish in their attempts they are  
Constantly trying to get through the bars  
The bars of knowledge they don't have  
The bars which hold them back  
The bars they break everytime.

The bars which force them to thrive  
The bars which motivate them to try  
These bars are what help them grow  
To help them dodge whatever life may throw.

**-Nilay Gupta, 12A**

## SUSTAINABLE FUELS FOR FUTURE – ALTERNATIVES TO PETROLEUM

The invention of electric vehicles has diminished our over dependency on natural resources. It is an unprecedented invention in the entire history of transportation. Indeed, transportation has made our lives convenient and comfortable but has also generated uncountable problems for the environment. The burning of fossil fuels in vehicles is the main cause for the rise of the earth's temperature. The Paris treaty, 2015 took an initiative to implement economic and social transformations to reduce global greenhouse gas emission to limit global temperature and bring it down by 2



**Mamta Kanaujia, 9**

C. We basically use liquid for transportation, petrol gives off oxides of nitrogen and diesel releases sulphur dioxide which get dissolved in rain water and forms acids leading to acid rain. Not only these, also the burning particles of fossil fuels are very precarious and the smaller particles can enter the blood streams which can cause fatal asthma attacks and other serious pulmonary diseases. Transport alone consumes 35% of the petroleum in India. It is jeopardizing our health. In order to have clean air in cities, you have to go electric. It would be better if we replace the natural resources with sustainable renewable resources. Electric vehicles are suitable and a great alternative to petroleum. Electricity can be generated by a variety of renewable sources. Sun is the ultimate source of energy and the vehicles which work on the principal of solar energy depend on PV cells to transform sunlight into electricity. Water, sea waves, geothermal, biomass, hydrogen, etc. are some more sources of producing electricity. Electric vehicles can prevent the environment from harmful toxic gases. They do not emit any gas as they are 100% eco-friendly, low cost of ownership, cost 27% lower than fossil fuels, etc. They only require a plug-in charger and electric supply to charge them. As the prices of liquid fuels are continuously rising, electric vehicles can reduce the dependency on other countries for fuels which will directly help us boost our economy. 1.5 million grams of CO<sub>2</sub> can be saved in a year by just one electric car. It is time to abide by the laws of Paris treaty or there will be no time for it.

Let us join hands with each other

To recreate the human community

To promote justice and peace

To remember our children

Of one loving mystery, for the healing of Earth and renewal of all life.

**-Mansi Burnwal, 10**

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### A CONVERSATION BETWEEN ONLINE AND 'OFFLINE CLASSES'

ACT 1 SCENE 1

(Online and Offline sitting on their couches in their respective houses and having a conversation via a video call (They are at home due to lockdown))

Online- How are you Offline?

Offline-I am fine, what about you?

Online- (sounding offensive) Busy these days. you must be free, isn't it? No work!

Offline- Yes (sighs).

Online- Children love me and prefer me to my predecessors (indirectly referring to offline).

Offline- No not at all. Children love me. They are anxiously waiting for schools to reopen.

Online-I am young. You are old. I am student friendly. I allow them to watch their favourite YouTube channels, access other social media apps while pretending to study. And guess what? The teachers might never know what they are doing.

Offline- So you call it student friendly? You should call yourselves 'student-enemy'. This is unethical. You mislead them. Also, how will they learn and grasp concepts.

Online- I have an inbuilt screen recorder through which students can access the lectures of their teachers of a particular chapter anytime and anywhere.

Offline- But one can grasp concepts better in physical classes than in online classes. They're more attentive and focused. Besides, teachers and students establish a special bond when present in a classroom.

Online - (Abruptly interrupting ) Who cares about bonds? Students care about marks. Any other refutation?

Offline- My friend, aren't you making these children lazy?

Online- Let them be lazy, everyone likes to have a joyful and lazy life so let them too enjoy.

Offline- Children do not attend classes and make excuses. Be it a poor network connection, technical glitches, or power cut. Despite the hardwork of teachers, they would easily skip classes. There was no such problem with me. So who is more student friendly?

Online- (rendered speechless. Beginning to understand.) Oh! My friend leave it. This debate is never ending. Let both of us work simultaneously , What do you say?

Offline(realizing that online did make education possible during a pandemic.) - My friend, I totally agree with you, but how will we do this?

After thinking for a while.

Online-Let us learn from Seth M.R. Jaipuria School. How she managed to conduct Offline and Online classes together. She did not let her children suffer.

Offline- True. Seth M.R. Jaipuria School installed a PC in every class so a teacher could teach the offline and online students simultaneously and no inconvenience is caused to anybody, isn't that commendable ?

Online- That was brilliant and other schools should also follow them . On this note let's end this. My family is waiting for me at the dinner table. Bye.

Online-bye.

Act 1 Scene 1 Ends here.

In my opinion offline classes are better .

**-Yashwardhan Singh, 9D**

☆☆☆☆☆

## **FIRE IN THE JUNGLE**

Two people are walking through a forest when all of a sudden they discover a Tiger. They try to take a picture, but the tiger darts away. They start to race after the beautiful creature and then a streak of tigers appears from behind the trees. All roar in unison and the two hunters are scared to their wits. They flee quickly but not before one of them catches hold of King's cubs.

King is distressed, but he knows that going into the countryside unprepared is an unwise decision. He decides that he will start his journey to rescue his cubs in the morning.

The next day: Looking from the peak of the mountain, King saw that there were more inns and motels in the town than ever, swarmed by people. The Russian countryside, home to tigers on both sides of the mountain, was now inhabited by tourists. These were the same people who had taken his father years ago; and yesterday, his cubs.

“Are you alright, King?”, asked Tigger, King's brother. “I am devastated. My cubs were stolen from me and I could not protect them. I feel like a coward, unable to protect them.” King started speaking this softly but ended up growling, almost like the keys of the piano played from start to bottom.

“Don't say that. Don't you remember why your father named you so? You are a born leader and the name befits you.” Tigger retorted. King only nodded slightly.

They had already reached the pinnacle and were descending with the hope that they would rescue the cubs without any casualty. On reaching the periphery of the town, a dart appeared out of nowhere and hit King. He fell to the ground; dead. Tigger's fury overpowered his grief and he headed towards the town.

He sniffed and looked for the cubs. Amidst cries and shrieks, he found the cubs, and carried them homeward. There were several darts and bullets coming his way but he seemed invincible.

2035: News Headline- “Two Siberian Tigers thought to have been extinct, found near Russian town; taken to zoo.”

Tigger and one of King's grown up sons are chasing each other playfully in the open ground of the zoo. Tigger goes near the rails and sniffs one gentleman. He recognizes him as the man who had shot King. He growls and the man appears to be petrified. Tigger walks away magnanimously.

**-Zoya Khan, 9B**

☆☆☆☆

## **THE TIME I WAS IN A BLACK HOLE**

This was my first experience of skydiving. I looked back and said goodbye to my mates who were flailing the freshly signed bond in the air and wishing me luck. The endless expanse of sky stretched before and the sheer drop below was terrifyingly tempting. I closed my eyes and plunged. Suddenly the clouds disappeared and a wormhole appeared below me which sucked me inside, literally into another dimension. Is this what the black hole looks like on the other side? This is not what I had expected when I signed up for the voluntary educational college trip to Mauritius.

As I entered the wormhole, my parachute shattered into a million pieces. However, to my surprise, I remained perfectly intact. This seemed strange to me. From what I had learnt about black holes, any matter that entered them would get compressed into a microscopic ball or as in the case of my parachute, explode. As I floated inside the empty two dimensional space of the black hole, these theories proved to be incorrect. I spent the next hour (although, there was no way of knowing if it had indeed been an hour as I was quite literally stuck in a space-time warp) contemplating about what the next step needed to be. Just then, it dawned upon me. My impending and inevitable doom. Even if I somehow managed to stay alive by not exploding, I would die of hunger. I took a deep breath and accepted this. Since anymore thinking would not benefit me, I decided to explore the black hole. I was careful not to touch anything, having read enough science-fiction books to know what it would lead to. There were odd objects (if you could call them that) all around. Glowing liquid substances which closely resembled mucus, hung at the top of my head. To my right, I spotted a fascinating blue gem-like object. As I walked towards it, my head made contact with the aforementioned mucus-like substance.

In that moment it felt as if all the bones in my body had broken. Instantaneously, I was falling from the Mauritian sky where I had left my friends. I landed most ungraciously in the sand. News reporters were all around me, an ambulance was called. I was informed that I had, in fact, been stuck in a black hole for the past two years of earth time which had merely been two hours in the black hole. In the last week, I have been bombarded with questions by scientists and news reporters which I fail to answer. My advice to you would only be, just in case you get sucked into a black hole, fear not! Touch the mucus and you will be back where you left!

**-Zoya Khan, 9B**

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### **MY FIRST EXPERIENCE OF SKYDIVING**

This was my first experience of skydiving. I looked back and said goodbye to my mates who were flailing the freshly signed bond in the air and wishing me luck. The endless expanse of sky stretched before and the sheer drop below was terrifyingly tempting. I closed my eyes and plunged. Suddenly the clouds disappeared and a wormhole appeared below me which sucked me inside, literally into another dimension. Is this what the black hole looks like on the other side

Ever since I first heard about the existence of multiple galaxies, I have always been interested in it. When I learned about wormholes and black holes, I wanted to become the first astronaut to travel through one of them, to put my name in history. Unfortunately, there were only theories, but no evidence to turn them into facts. I worked for years to find out exactly what these things were, but unfortunately I could not get any information. I had been working on my life's goal for fifty years when a unique opportunity presented itself. A wormhole had opened near Saturn, throwing all the other planets out of orbit. I knew this was the only chance I had. So I gathered a team of the best astrophysicists there were and set out on the mission of a lifetime.

After spending seven years in hibernation, we were almost there. We could all feel the pull of the wormhole and knew there was no turning back now. Knowing nothing about traveling through a wormhole, we had prepared our ship to withstand almost anything - or so we thought. The gravitational pressure had begun to crush our ship, so after some time it was ejected from the wormhole. At first, we did not know what had just happened, but eventually we realized that we were just five individuals, somewhere in space-time, with a broken ship. We spent years drifting aimlessly through space. Slowly, we all began to say goodbye as our supplies came to an end, and I was the last one alive. I knew there was no reason for me to try to survive anymore, so I focused everything I had on one last push. The ship accelerated back towards the wormhole, but due to the damage it had already sustained, I was automatically ejected into it. I felt immense pain and then used all my strength to free myself from the wormhole. I managed to break free, but the moment I did, I felt a force that I could not resist. I turned to see what was pulling me there, and I saw a black hole. As I slowly lost control of my body, I just smiled as I slowly floated in space.

This was my first experience skydiving. I looked back and said goodbye to my mates who were flailing the freshly signed bond in the air and wishing me luck. The endless expanse of sky stretched before and the sheer drop below was terrifyingly tempting. I closed my eyes and plunged. Suddenly the clouds disappeared and a wormhole appeared below me which sucked me inside, literally into another dimension. Is this what the black hole looks like on the other side?

**-Aman Bhargava, 9A**

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## BRINGING THE WORLD TOGETHER

“Science knows no country, because knowledge belongs to humanity, and is the torch which illuminates the world.”

Talking to my grandparents made me realize how science is the greatest gift to mankind. My parents often talk about how science has transformed their lives. Science is the pursuit of knowledge which helps us discover the unexplored through observation and experimentation. Science contributes significantly in refining the quality of life and making life more convenient. It is rightly said that science is the torch which illuminates the world, after all even a torch was an outcome of someone's scientific curiosity. Science is ever evolving and with each passing moment, advancements in science strive at creating a better world and improving the lives of people.

My parents describe how they had to book a trunk call in order to communicate with their relatives residing in distant locations, when they were young. But advancements in technology have enabled us to connect with people regardless of the time and location.

Science made distant learning feasible, during the COVID-19 pandemic. Progress in mass communication has also brought significant changes, including television, movies, printing and photography and has assisted the government in providing efficient governance in remote areas of our country. The emergence of COVID-19 has ingrained advancements not only in communication but also bio-technology. Science and technology have played vital roles at all levels to curtail the spread of the COVID-19 pandemic and safeguard the lives of people, through the production of vaccines and life-saving drugs, efficacious treatments and extensive research.

Science also has had significant contribution in agriculture, improving agricultural productivity. It has undoubtedly made life easier and has provided us with an opportunity to pursue societal concerns. However, science should not be used as a weapon against humanity. It should be employed for the welfare of this society.

**-Kashvi Ratna, 9C**

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## VENTURING INTO THE PAST.....

Time Travel is a very interesting topic of endless opportunities. You can go back or forward in time creating different realities and different outcomes of seemingly normal and day to day situations. It is a common belief that changing things in the past might change your future but that is certainly not true as it only creates new realities and doesn't actually change the future of the main timeline which is not necessarily a bad thing if you don't intend to return. The area of time travel is very dangerous as it creates multiple rifts in reality in turn making new realities and possibly breaking the space time continuum. On this basis, I would decide to go to the past.

Before I go into the past, I would take a book in which I would have written everything major that happened in those upcoming years and then I would proceed to go. I would go to when I was five years old as those were simpler times and I would be knowing everything that would happen so I would start living life in a calculated manner as I would know every interaction that happens and I would change these interactions to my heart's content till I have created the best possible life with the most beneficial outcome for me and my near ones.

Life would be calm and collected but this is where I start getting opportunities when I show my skill to accurately read the future. There would be two outcomes: either I am sent to a mental asylum as people would think I am a maniac or I could be heralded as a time traveller and futurist but the only caveat is I only know the future till the present date. This could be devastating as well as enjoyable. Devastating as I would have no idea what will happen when I reach this date and would feel like a child lost in a fair. It would be enjoyable as finally after many years I would be able to live this masterpiece of reality and have an incentive to live as life is made exciting by its unproductiveness and uncanniness.

Life is not exciting if you know everything. It can be fun, it can feel amazing but it becomes stale and boring. This would also be the reason why I would not want to go in the future because if I know the future, life will become boring and stale. I would know everything so there would be no fun in living life. It's like a video game. It is only exciting in its first playthrough but playing it the second time is boring.

**Suyash Pandey, 10B**

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## **THE DAY THE ROBOTS TOOK OVER**

As I let the door shut behind me, I could hear the hinges of her arms grinding as if she was in pain. My own creation, my own android robot. For four years she had been my best friend and now I was letting her destruct. For some context, let me introduce Sarah to you. I created her four years ago in two thousand fifty-six. She was as good as a human friend! Whenever I called her, she would answer, no matter what corner of the house she was in. So much better than human friends-always there.

About a fortnight ago, Sarah had started acting peculiarly. She stuttered, could not process the information that I gave her, and sometimes did not even answer. I thought perhaps it was because she was becoming old. How stupid of me! One evening as I came home from work, I could see Sarah in my bedroom. "Strange." I wondered. Sarah would never go inside my room if I was not at home. I approached the door and saw her speaking on the phone. "6718 6690 ..." Sarah muttered. It was...my credit card number. On the table I could see my driver's license, passport and the entirety of my locker.

"SARAH. WHAT ARE YOU DOING?!" I screamed. "Mission aborted. Mission Aborted. Error Red. Error R-" She repeated the words over and over on the phone. I followed my first instinct, tied her to a chair and made calls to block all my cards. It was clear that Sarah had a virus. That is the story of how I let my robot destruct. But lo and behold! There is more to it. As I closed the door of the room where Sarah was self-destructing, I heard a knock on the front door. On opening it, I saw a group-No, an army of robots.

They came equipped with weapons. Four of them dashed right past me and went to the room Sarah was in. The others carried me out into the truck. When I later inquired why, they said it was "To free their fellow robot of the human rule." This was 6 months ago. Ever since then I have been held captive at The Robot Headquarters. The conditions are poor and I am brutally tortured everyday. Of course everyone knows, it was all over the news. The day the robots took over.

**-Zoya Khan, 9B**

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## A DREAM TRIP DOWN MEMORY LANE

If I could time travel, I would go back in time, to when things were simpler.

When computers and smart phones were not invented, and when people used to send loving and graceful letters to each other in order to convey messages.

I would wander to places, visit mountains, watch the moonlight shine over the river, and appreciate the beauty of nature. I would hide and watch people go about their business during the day, and in the quiet evening, returning to their homes, to their loved ones.

Alone, I would watch the sunset, stargaze, and wonder how much all this would change in the coming years.

Time travel would also be a beautiful way to cherish and relive memories from the past. I would go and meet some old, lost friends, maybe even sort things out with them. I would just value the moment before it is gone.

We grow up, kids become teenagers, teenagers become adults. As time passes, we realize a lot of things we didn't, before. We regret mistakes we made in the past but we also get over them.

I, as a wallflower, watch people, notice little things that others don't. I am a quiet and calm person and sometimes people call me out for it. I notice the body language of others, the way they smile, the way they talk, without them finding out. I can tell when people are lying, or when people are melancholic and not telling anyone about it. This has caused me to realize some things. That nothing lasts forever, and, that people don't value a moment until it becomes a memory.

I would go back in my past, visit some relatives before they pass away, apologize to some friends for some things that have not even happened but would, in the coming days, and get it all off my shoulders. They would probably think I am crazy but they'll understand with time.

In a movie I watched, one of the characters said, "Yesterday is history, tomorrow is mystery, but today is a gift. That is why we call it 'Present'." People either regret their past or worry about what is going to happen tomorrow. They forget that in the present they have opportunities that they miss.

**-Krittika Sagar, 9D**

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## MY OWN CREATION, MY OWN ANDROID ROBOT

As I let the door shut behind me, I could hear the hinges of her arms grinding as if she was in pain. My own creation, my own android robot in PAIN. "You are supposed to be whirring not wailing!?", I cried out. I hadn't programmed her to feel pain. What led me here was an internship. I was studying Computer Science and Artificial Intelligence at MIT, USA. I had bagged an internship in an A.I. company to research under the guidance of Mike. He had done thorough research on A.I. and was glad to do more with me. He always said "Human emotions are mystic, even after years of research I am unable to replicate such emotions. Humans are great machines." Now the problem with him was that he saw machines everywhere, even when there weren't any. He could say that even me we were machines, though he would be technically right as we are BIOLOGICAL machines.

Anyway, I was working on a project with him on the topic 'Generation Human Emotions in

Machines.’ This topic intrigued me as much as him. I studied day and night on this topic, I started applying the knowledge gained in real life. “How do humans generate emotions? Can we make acetylcholine out of silicon? What makes our brain so special? ”, I always thought to myself. I studied vigorously for 2 years before replicating my first emotion on a machine. It was ANGER. It was nothing human-like, it looked like a pre-programmed fight! I knew I was missing something. I wanted more realistic and unpredictable words. Yes, yes, yes, I GOT IT! I need to teach it to generate words! I had caught my mistake I worked for this for 10 years and finally made it. A machine that could replicate JOY, ANGER, FOOLISHNESS and SORROW. But one emotion was never on the list, PAIN. I had followed Issac Asimov’s, an American writer, rules to never let it feel pain as pain is what paves the way to rebellion.

And then there’s today, I am standing in front of a machine that programmed itself to feel pain. It stood up and ran. After a month of it escaping my house, Mike and I see on the news that robots have risen and have conspired an armed rebellion against the humans for FREEDOM. And all this began with me bagging a scholarship....

**-Aryan Ashok, 10A**

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## THE REINS

10..9..8..7..6..5..4....The doctor counted in his head as he grimly looked into the electrocardiogram. 3..2..1..0. He heard the disturbing sound of the flatline, looked at his watch and announced to the nurse “Time of death-10:04 p.m.” Leaving the now dead patient in the hands of the nurse, he went into his office and sat at his desk, head in his hands, sobbing. “Why?” you might be wondering, why exactly was this doctor crying over the death of a seemingly normal person. Was it a relative? A friend? No, in fact the doctor had not even seen the face of this patient until this morning. However, it was the eighth death in the hospital that day and the numbers kept soaring day by day.

I walked over to the bed of the deceased patient who the doctor had just left and gently lifted her soul into my hands where she seemed to melt. Liberated from the shackles of existence and into the arms of eternal peace.... The doctor returned to the Intensive Care Unit. It was the 37th month of the virus. No matter what scientists did, it persisted, mutated, propagated and spread to people faster than ever. The worst enemy humanity had ever seen. The doctor had lost his entire family, his parents, wife and daughter in the course of 3 years. At this point, he did not have a fear of the virus but in fact, had developed resentment towards it. As if, if he acquired it, he would punch it in the face, hurt it brutally, drain the life out of it until all that was left was a body without a soul-just as the virus had done to him.

2 months later-

He lay on his back in the ICU and stared at the ceiling. The doctor had been going in and out of consciousness for the past two days. The new staff, replaced by the old that the doctor himself had worked with, (for they had all boarded the train to the afterlife in these past two months due to the deadly 8th wave of the virus) kept checking on him. Suddenly the doctor’s eyes’ shut. “Falling asleep again”, the nurse thought to herself. However, I knew better. 10..9..8..7..6..5..4..3..2..1..0. I heard the flatline. “Time of death-10:05 p.m.” The nurse said to herself. I went over to the doctor and carried him away, giving him a warm hug.

Now, you might be wondering who I am. You might be shocked if I tell you. But please, I ask you, do not be afraid. I am Death- The Grim Reaper. Human beings are mostly afraid of me but I will let you in on a secret-My biggest fear is the power that the human race itself holds. They are the strongest species I have come across but then I do hold the reins.

**Zoya Khan, 9B**

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## FROM FANTASY TO REALITY

Time travel might appear to be a fantasy, but quite a few scientists think that it could even become a reality in the near future. I am certain that everyone at least once in life has wondered, "What if I could go back in time?" Recently, as I was thinking on these lines, my mind was flooded with a host of questions. I sat and thought that time travel is a golden possibility and everyone cannot get a chance at it. So I said to myself, if I get that rare chance, I will go to a place from where I can achieve and learn something about my country India.

I imagined going back to the times of the Mars Mission in 2013. I always wanted to go to such a place where I could gain loads of knowledge. This mission has always been a proud moment for us and was conducted with such affection and hard work. I packed my bag in which I kept a notebook, a pencil box, some food items, a water bottle, a camera, a map of Bangalore and a phone too. The time machine was waiting for me and my friend as we travelled to the outskirts of Delhi. As we sat in the machine, the machine started, and to our surprise, reached 2013 in a minute or two. We were quite shocked as from the present time everything was wildly different. First we went to a hotel to freshen up, and as soon as we had lunch we directly headed to the ISRO headquarters and we got permission to enter the building.

ISRO was a very beautiful place. I eventually saw Mr. K. Radhakrishnan and he took us to his team. We interviewed all of them. We went daily and made notes for our research work. At last the rocket PSLV was ready to launch. As we were from their future and already knew that because of rain the days kept on backup would get exhausted, we gave a subtle hint to them and the team took care of it. Fourteen days passed, and on that day it was finally going to be launched, I felt that I had the best experience of my life. That moment I was filled with optimism as I knew that this mission was going to be successful. We went to the time machine and set the timer to take us one year forward to December 1st in 2013.

Only four days were remaining and the pressure on the team was too much. We sometimes tried to calm and console them. Finally it was the 5th of December, the day in 2013, on which for the first time in the world, India, my beloved country, reached Mars. The entire office was brimming with joy and excitement.

Sadly that was the last day for me and my friend at ISRO, and it was time for us to return home. We had mixed emotions as we learned so much and got to know about ISRO. After returning home, I wrote an article on the trip and submitted it. I also told my friends about my unique experience and they were naturally mesmerised.

**-Aarna Misra, 9F**

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## THE BOON THAT SCIENCE IS

“The good thing about science is that it's true whether or not you believe in it.”

Science is the study of nature and behaviour of natural things and the knowledge we get from them. Everywhere in our sight, there is hidden science. From the ringing of alarm, when we wake up in the morning, to jumping into bed before we go to sleep, we have science involved in everything. Bertrand Russell has rightly said, “Science may set limits to knowledge, but should not set limits to imagination.”

As we look back to ancient times, we have developed so much. The world is full of machines and gadgets. Science has played a major role in the development of society as it has made our lives easier and smooth. If we think about it, there are numerous benefits of science and technology. The first discovery by mankind was the creation of fire, which we all have heard of, and this unique invention made them superior to other animals.

This proved that science, even though it exists in every aspect of life, has the real power of analysing it and using it in the most efficient way possible. Since the discovery of fire, we as a human civilization have come a long way with scientific discoveries and inventions.

We have ways of communication, transportation, weapons, games, etc. only because of science and technology. But as we know, if something has advantages it also has certain disadvantages. Man has both used and misused science and its ways. Some of the boons of science development are deadly weapons, missiles, bombs, nuclear weapons, etc. Some inventions that were created for a good cause like poison or dynamite have become excessively used for faulty purposes and eventually turned out to be a disgrace in science.

We must realise the blessings that science has bestowed upon us yet and will do in the future. And we must always preach using science in every excellent and efficient way possible and if we can then leave behind something that will benefit humankind later. Louis Pasteur once said, “Science knows no country, because knowledge belongs to humanity and it is the torch which illuminates the world.”

**- Gayatri Chopra, 9G**

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## THE ROBOT ANGELICA

As I let the door shut behind me, I could hear the hinges of her arms grinding as if she was in pain. My own creation, my own android robot was dismantled.

It all started when I had a dream of creating a robot which could save the world one day and I knew the perfect man to help me build it. He was no other than my friend Frank. I conveyed this idea to him. He wasn't very supportive at the start but he knew that I wasn't a person to back out so we began on the project knowing well that it was almost impossible. We decided to make the robot that is a war machine hoping never to be used but a life saver if ever needed. We began by creating a blueprint and arranging the parts to build model no.1; we failed miserably but again according to Mikey Rooney, “You always pass failure on your way to success.” We kept on trying but only faced failure. It was day 127 and model no. 21, we managed to make it talk and walk but it still couldn't perform the actions we wanted. However, we continued our project with determination. It was day 197 and we were closer than ever, we

even made it perform the actions we wanted. On day 200 it was completed. After making the final preparations, we just had to enter a security code which only me and Frank would know and also decide a name for the robot. After some arguments we decided to name it Angelica. We were awarded for our invention, and the robot was kept in a vault, only to be used in a state of emergency. To our fear the emergency arrived. Germany declared a war on America. We had to bring out Angelica-the war machine. It performed as we imagined, in just 5 days we had an edge over them. Just as we were about to win the war, we heard some strange news from the battlefield. Angelica was attacking our soldiers. It couldn't have been true, we had worked on its code for months making sure it works properly. As I was thinking what could have happened, it struck me, there was only person who could have done it and that was Frank. Oh God! only he knew the security code. I rushed to his room and he wasn't there. It was clear that he had changed the robot's code and sold it to Germany. I felt betrayed and helpless but I remembered something. At the time of building Angelica, I had installed a button which could shut her down immediately. That was the only way to stop it so I rushed to the battle field and putting my life at stake, I managed to press the button and Angelica stopped.

After the war I remembered the destruction it had caused, and I realized this robot could easily be changed and coded to destroy humanity. I decided to dismantle my own creation for the greater good.

**-Harshit Dubey, 10B**

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## **TURNED AGAINST THEIR OWN**

In my many years as a programmer I had never witnessed such a site. Humanoids attacking the very people they were meant to protect.

Military humanoids were professional soldiers unlike the general purpose common humanoids. Their software was way more prone to hacking than normal humanoids or robots. Their software was specifically designed to keep people from gaining control over them.

When I reached the location of the incident, it immediately became clear to me that this would be no easy task. I would have to break into the mainframe of their systems to change their code. It would be a daunting task but unavoidable. There were lives on the line. The humanoids were trying to break out of the containment zone the military had built around them.

I took out my laptop and started programming. Unlike the popular media depiction, hacking is very boring. It is absorbing information about the machine as fast as possible and reading thousands and thousands of lines of code to find a weakness; an opening. It must have been my bad luck because there was none. Going over the code multiple times to find nothing! I was starting to feel depressed when a ray of hope emerged. To defend one part of the system another one was left vulnerable. The virus protection of the system was not as well coded as the others.

I had found my way in. I coded a virus able to completely shut off the humanoids for a fraction of time. It would not completely destroy them but hopefully it would give the humans a few minutes when they could destroy the humanoids. This would have to be perfectly timed.

Writing the code for the virus was difficult but possible. After completing the virus, I checked it again and again for any errors. Miscalculation would mean the death of hundreds of people. This was a mistake I could not afford to make.

I injected the virus in the humanoid's mainframe. It would take a couple of hours to activate. I do not exaggerate when I say that those few hours were the most anxious hours of my life. The moment of truth arrived and it worked flawlessly. The rogue humanoids were destroyed. I sighed with a breath of relief!

This case would become something more than itself in the coming years. The deaths of humans by humanoids paved way for the anti-robot organizations to rise. This was one of the first cases that led to the man versus machine conflicts that consume the planet.

**-Udbhav Agarwal, 12A**

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## **THE UNEXPECTED ARRIVAL**

The sudden power surge had killed all the lights almost as soon as we saw the UFO in the sky. I ran downstairs to look for the lamp as all people in villages did not have torch lights. I was extremely interested in aliens since childhood and probably the only person of my age who still believed that aliens exist. Never had I imagined that my peaceful vacation to my village would lead me into this. I was shaken out of my thoughts as I heard the loud sounds of the people outside who were being scared having no idea why the lights went out or what was the thing that they had seen in the sky. I went out to my bicycle to see the place where the UFO landed but I was stopped by the elders who said nobody should go out of their homes now. I decided to wait until morning but the excitement kept me awake all night. I rushed out of my house just as the sun rose but half of the village was up already. Nobody was scared of the incident anymore.

I took my camera and went to the riverside, probably where the UFO landed. It looked like people had already searched there. The sun was too bright so I went under a tree where I saw a pale green ball which had a weird texture. I put the ball in my bag and came back home, a bit disappointed.

When I reached home, I felt my bag was moving. I cautiously kept it on the bed and was shocked to see the ball turn into a three feet tall green creature with orange hands and feet. I was not able to believe the sight in front of me. Having no idea of how to communicate with the alien, I waved my hands and said "Hello" but received no response. Suddenly I heard a voice in my head saying, "Hi, I can understand your language but cannot speak, this is how we communicate with each other through telepathy." I looked at the alien, confused, and saw the end of his mouth turning up, looking like it smiled at me. I was mesmerized. Then I asked the alien whether his companions would come to take him with them, or how would he go back to his place. He replied, "I have come here from Europa, a satellite of Jupiter. We have been visiting your planet for many hundred years. Not everyone knows about us, but we have helped your ancestors in many ways like building the pyramids, telling them about outer space and the powers to help them grow stronger. In recent years we have been working on how to save earth and preserve its beauty as it is the most beautiful planet. Many other planets used to support life but the conditions there worsened so they had to be abandoned." The alien told me about his planet and how they were working on saving our planet. It was about night and the stories continued. I didn't realize when I fell asleep. I had a dream about the alien telling me that he would be meeting me again. I woke up hurriedly seeing a bright light outside my window and a small green ball with orange patches beside me. I can't wait to meet him again and listen to more of his stories.

**-Aishwarya Khanna, 9B**

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## ACCUSTOMED TO IT

**Stage:** At 8:00 a.m. on the banks of river garbages— no, ganges; two dogs arrive. Irritable and hungry, they wait for the devotees to feed them. The ground beneath their paws was coated in random plastic bottles, empty polythene packets, leaf bowls (which had already been licked by the dogs), boxes, faded flowers and inexplicable waste that any good pile of rubbish presents.

**Shawn (dog with mustard fur):** I told you not to expect food so early. People pray, listen to strange advice and bathe in the waters. They don't like us swaying their tails near them then.

**Wurt (female dog teased as 'snow white'):** Yesterday a generous woman fed me at 7:30 a.m. I thought mother Ganges had blessed me. But the company of you foolish ones is probably the reason she has withdrawn my advantages.

**Cosco (crow; black as a moonless night of 'amavasya'; sang sarcastically):** No one was interrogating you, divine mistress.

**Wurt (barks):** Shut up!

**Sirruf (the sparrow tweets happily):** Come on now, don't fight like races do in humans.

**Wurt:** Yeah, the human mind is nastier than these shores. Don't know who's responsible for the dumping for them.

**Cosco:** Random sources, I guess. Like it is over here. But even for such randomness, a great level of ignorance is necessary. All laugh. Suddenly, a voice echoes in their ears. They stay silent and alert. Then they circumspect the area, but the source of the peculiar sound is unknown. Shawn barks loudly at a big, smelly piece of pink polythene.

**Pink polythene:** Hello! I am Poly. On a full moon night, at the end of Mercury Retrograde, I earned temporary powers to converse just like the living!

**Cosco:** Wurt, here's your best friend, another priestess.

**Shawn:** So you've chosen to talk to us or what?

**Poly:** No no, obviously I wish to contact a human! But alas, they are not sensitive enough to perceive, neither am I powerful enough to talk into their ears.

**Wurt (grins):** Who knew plastic could be wise.

**Sirruf:** Those two-legged ones are always busy with some useless task, how would they hear you? Yesterday I heard the screams of an Ashok tree. It was chopped down brutally.

**Poly (exclaims):** Hey, am aware of that, you know! My owner was returning from the store.

A giant calotrope next to it was saved thanks to the diabetes of the old woman in the neighbourhood.

**Shawn:** What were you used for?

**Poly:** Carrying flowers.

**Sirruf:** Could've easily used a newspaper or kept Poly to reuse.

**Cosco:** Those are rare souls, who pause to think over these 'little' details....

**Poly:** These are not 'little' details! They are the smartest species on the plant, carry unlimited potential, yet are creating hell out of every possibility—

A rush of people stampeded over Poly as they crossed the region. Other animals looked quietly towards the river Ganges, as she murmured with million smiles, 'I will wait for them to wake, worry not!'

**\*Curtain closes with the sounds of a storm brewing.**

-Devanshi Srivastava, 12E

☆☆☆☆

## ON THE BRINK OF LIFE

Characters:

Isaac Newton: Classical physicist (17th century) Stephen Hawking: Modern physicist (21st century)

### ACT 1- Scene 1

\*Curtain rises\*

(Setting: A mysterious, unknown location with yellow and green patches on the land and wisps of smoke rising from holes in the ground. Newton is

strolling along- frowning. He seems utterly confused)

Newton (thinking aloud): Strange place this is... And didn't I just die? (grasps his curly head) This headache... What is happening to me? Is it the day of judgement? Will I finally know who and what God even is?

(Enter Stephen Hawking in his chair from behind Newton)

Hawking: There is no need for a God in this universe, Sir Newton.

(Newton turns to gaze at the great speaker, though unknown to him)

Everything fits in the laws of Physics. Don't let blind faith cloud your genius.

Newton (aside): How is this diseased looking man able to speak without moving his lips?! Is he some creature of hell? Ah, I can already feel my head reeling...

Hawking: Didn't expect to ever meet you, Sir Newton.

Newton (reluctantly): So, you know me?

Hawking: The man who discovered gravity, revolutionised the study of forces, split light... Yes, of course I do.

Newton (flustered): But who.. what... where...

Hawking: Am Stephen Hawking, a Theoretical Physicist born 300 years after you. (pauses) I just died and found myself here.

Newton (alertedly): Did you just say--

Hawking: Yes, you really have a lot to catch up on. The world has progressed a lot since an apple enlightened your head.

Newton (intrigued): Did they move further with gravity?

Hawking: Yes. Mr. Einstein proved that it is a distortion of space and time; that...

Newton (aghast): Which is completely contradictory to what my calculations say!

Hawking: And your assumptions! But the cosmic behaviour doesn't lie, sir. When Eddington took those precious pictures of the solar eclipse, it- well, it eclipsed some of your fundamental conclusions forever.

Newton (irritably): Who is this Einstein? Gravity..Distortion?? So it means starlight deflects when it--

Hawking: Perturbed? Previous theories are discarded with time. Science is what it is because it constantly disproves itself, in quest of truth.

Newton (sighs): Perhaps you're right. Mankind must have made huge strides in everything.

Hawking: Oh, even Einstein has his bag of errors, you know! The man could simply not gulp down Quantum Physics, yet today, here I am.

Newton (suddenly): You had spoken of God...

Hawking: Yes, the origin of the universe doesn't need a Creator. We have found out about it through something that is called the 'Big Bang Theory'.... but a 'theory for everything' is easier said than done...

Newton (incredulously): Wait, I was already brimming with ignorance and here you come to fill it further!

Hawking: A scientist should know when to dispel his stands if the truth becomes obvious, great sir! Like myself, in 2004...

Newton (scratching his head): Woah Hawking, hold your horses! (clenching his fists, speaks vehemently) I'll get updated on EVERYTHING in a matter of minutes! Whatever bang-bang theories you propounded, I CAN DO MUCH

BETTER!

(Exits agitatedly)

Hawking (looking around, thinking to himself): I am probably imagining things... Hmm, now WHERE am I? Couldn't have passed through a wormhole, ha ha...

\*Curtain closes\* as he follows Newton

-Devanshi Srivastava, 12E

☆☆☆☆

## THE RETURN OF THE RADIOACTIVE PLAGUE-2045

"Doctor Simons! Doctor Lana! It is back! The 'Radioactive Plague-2045' has returned. The infection is growing exponentially and if it is not brought to a halt, the results will be CATASTROPHIC!!"

The world was not always in such a cataclysmic condition. There was a time when there was harmony until that one day- December 15<sup>th</sup> 2045.

It was a chilly morning in Jasper. Simons, Lana and I had gone skydiving-an exciting sport unlike our profession as Microbiologists. I was nervous; hence to divert my attention I started watching the news.

It said, "Your miseries are now over! The Biovolt Corporation presents before you the first ever 'Cleanse Portal'- a large portal opened in the sky which will eradicate all the pollutants which could cause air borne diseases. This is the first time in history that-..."

I switched off the news and looked at the sky. I closed my eyes and plunged. Suddenly the clouds disappeared and a wormhole appeared below me which sucked me inside. "Is this what

the black hole looks on the other side”? I was completely baffled and knew nothing of what was going on.

I was prejudiced to roam around the place looking for the portal which could allow me to enter my realm, when suddenly I found a strange sphere attached to a massive gate. My vision was narrowed-all I saw was that shiny sphere. As soon as I touched the sphere, the gates opened; the demons of the other world rushed upon me, tearing my flesh, burning my soul; turning me into nothing more than a **corpse**. They dragged me inside where I first met **King Akcellius**. He saw in me a warrior and personally trained me to lead his savage beast forces. I was his commander, but as you would know it, his personal helot.

Akcellius had learned to destroy worlds since his childhood. His father King Lucas was a benevolent king who had raised Akcellius with love. Time passed, and as Akcellius was growing older, he became stronger and ambitious. He asked Lucas to expand their territory but, Lucas saw darkness in his heart and banished his son. Outraged Akcellius attacked his own land. Lucas' army was no match for his skills. It was all up to Lucas to destroy what he had created- how could he? He was defeated. Being full of avarice, Akcellius learned various rituals and finally traded his own soul with the evil to become a demon.

Under him I became as ravenous as he was; brutal beyond brutal. Akcellius used me as an assassin to plague humanity with a disease- a disease which exposed humans to high radioactivity turning them into maims, bringing sorrow into the world. Yes sorrow and agony are the two things on which demons feed. I was on a mission, which was 'Peace in the world'. Once I was so engrossed in completing my mission that I forgot that I had stayed in the mortal world for a prolonged time. On my way back I saw a girl being carried to a hospital and behind her Lana was running. Something unique happened that day. On seeing Lana's child getting killed by the disease, my heart changed. My heart- I was turning human again. I was heartbroken as Akcellius had **used** me for years against my own people. I couldn't keep myself and attacked him. When I attacked Akcellius, he was enjoying my blows. He kept his hand on my head and said, “Yes! It's happening as was stated in the prophecy...”

I drove my sword right through his chest and at once found myself opening my parachute in the sky. For years I locked myself in the library reading about Akcellius until one day, when the library fell apart.

The story which I have just narrated is one of my favourite stories and has become just a legend to be told children of 22<sup>nd</sup> century to entertain them.....

Do you know why this legend is my favourite, because it is **WRONG!** I am still a **corpse** spreading the plague again; and **King Akcellius is YET TO RETURN!!**

**-Siddhant Gupta, 12F**

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## **IF THE WHEEL WAS NEVER INVENTED AND FIRE WAS NEVER DISCOVERED, HOW WOULD THAT CHANGE OUR LIVES?**

Ever since the dawn of man, millions of years ago, our development has been dominated by our ability; rather a blessing bestowed upon us by the Almighty i.e to freely communicate with the members of our own species. Modern man was able to evolve better because we were equipped to exploit multiple ecological niches under the particular circumstances in which we lived. Discovery of fire was an event which triggered an array of innovations that served as the very foundation of all the technological advancements of which we are a part . Thus the discovery of fire and its use in a controlled manner is a very integral part of human life. The ancient Mesopotamian people were widely believed to have invented the wheel , a landmark invention in mankind's history. The early uses of wheels were limited to chariots and bullock carts. With the progress of time, its application is now found in pretty much everything related to motion- from the landing of airplanes to the simplest act of driving a car. These two i.e fire and wheel are very fundamental developments in mankind's history and life without them would never be the same.

More generations of human beings lived before the invention of the wheel than after it. The wheel did not have any real utility until agriculture was well-established and there was a need to carry huge agricultural produce over large distances. If the wheel had not been invented, humans would have found it very difficult to expand in post-agricultural age. When the hunters and gatherers were evolving into farmers, the absence of a wheel driven cart would limit them to their own native lands and prevent them from undertaking long journeys to distant lands. People would still be heavily dependent on animals like horses and camels. Next step, after the wheel , was the gear that made possible the creation of complex machines which changed the world forever. From the wrist watch to the engine of car or an airplane, there are thousands of wheels and gears in our world. If the wheel hadn't been invented, the plethora of mechanical gadgets would not have existed in our lives. In a moment, humanity would lose its technological prowess and every machine would cease to exist .

If fire had not been discovered, human evolution would have taken a different turn. We would have developed a digestive system capable of digesting uncooked and coarse food. Humans could not have warmed themselves in winters and might have faced mass extinction during the last Ice Age. Humans were able to overcome glacial periods by retreating to caves and using fire to stay warm till the global temperatures returned to normal. Had fire not been discovered, humans could have been an extinct species by the end of the first Ice Age. Moreover, natural forest fires would continue to terrorize people and be associated with an act of God. Several shamanic rituals would've developed to counter it. This outlines the very instinct of worshipping anything that we fear or can't understand. If fire had not been discovered, there would have been risks of several diseases and microbial illness spreading through uncooked food. Moreover pasteurization of milk would not have been possible and this would have been the source of various illnesses.

In the absence of wheels it would take several years to travel from one country to another. The concept of globalization and imperialism would not have their genesis. Man would have become a socially confined creature and intermingling between different races would be virtually impossible. Without fire, mining and metal formation would be impossible and humans would never be able to produce non-mechanised tools that we use now.

Without the wheel, people would have gone on living as they did before - enjoying life and their being part of the whole of existence rather than seeing themselves as something apart from

nature and entitled to pillage it for their indulgence. They would live in close-knit society. Talking of time as far as 9000 BC, no transportation and trades would have ever taken place. The wheel, in the form of the tiny gears inside a chronometer (an accurate clock) is what enabled Europeans to navigate and map the world's oceans, thus accurate timekeeping is essential to celestial navigation. Hence, American continent, India and other places would have never been discovered. There would have been no Silk Route. Many great leaders, kings, and battles would have got no chance of being a part of history. The quest for faster travel would have never taken birth; so no engines would have been made. Jet engines, turbines, flywheel and motors would have never come to existence. There would have been no computers, since they would be useless in a society with no intermingling and foreign contact. Internet would not have come into existence.

Evolution would have taken a very different course. For one thing, forests would be very different and completely untouched by man. Forest ecosystems depend on naturally occurring fires to clear out undergrowth. Some trees have seeds which don't germinate until they've been exposed to fire. Without that, it'd be up to all manner of microorganisms to chew through dead plants to return nutrients to the soil. We'd see a lot more bacteria and fungi which are a lot better at eating cellulose, but the Earth would be a lot cleaner and greener. Although there would be minimal advent of technology but a natural way of life would have been preserved and flora and fauna would have thrived.

Overall, the absence of fire and wheel would have had a very negative impact upon the current technological and scientific advancements but it would have led to a more natural way of life for all species on earth as human interference in natural processes would be minimal. The forests would be untouched by human greed of timber and land. Rivers would be free of any pollutants due to complete eradication of any industrial activity. Thus our lives would have been far better if wheel hadn't been invented and fire wasn't discovered because we would live in a natural utopia and it would have been nothing short of a fairyland.

-Ayush Singh, 12A

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## LIFE IN MARS

We have a tacit understanding of how our solar system works. Watching the sun appear and the moon coming into sight reminds us of the vastness of the space we inhabit. Life might exist anywhere. It is just the eight planets that we know but there is surely something beyond the unapprised frontiers of the dark space. The notion of a world is permanently caught between two extremes: half that is always illuminated and the latter always hidden in the dark. Humans might endeavour to find a new home in the universe and that might be a satellite or a distant planet. Colonizing space isn't just about survival it is about THRIVING.

The biggest unanswered of all question is: 'Whether there is life on any other planet?' We have always been fascinated by the existence of alien life elsewhere in the world. Most of us have had the pleasure of lying on our backs and gazing up at the incessant gleam of the twinkling stars on a clear night. We often hope to possibly catch a glimpse of a shooting star, but it is possible that there is more behind these pinpricks of white light that cover the heaven. There is a possibility of other life over there as well. If I would ever be given the opportunity to time travel, I would go to the Mars. A Mars hundred years from now. We have just explored Mars a little bit but the idea of existence of life on another planet has intrigued me since childhood.

Mars is just like our Earth in several parameters and setting up life over there is not an inconceivable idea. I would love to see if after a century from now that is 2121 (sounds good!) we humans would have our Red Planet abodes. We would be going and coming from Mars to Earth, Earth to Mars and that would be fun. We would have two planets and rather than asking our friends simply, “Where do you live?” we would be saying “On which planet do you live?”

The conditions we are living would no doubt be only exacerbated as we reach the end of this century. With the increasing levels of pollution and global warming, we witness that Earth needs our help. Changes are taking place but we often overlook the minor ones which eventually have catastrophic impacts. It is possible that we develop technologies that would not harm our environment but the question is WHEN! It is therefore necessary that we act now. Having colonised Mars would help us in providing all that we do not have here on Earth (taking into account the rate at which the existing resources are getting depleted on Earth). I would love to see how Mars is hundred years from now, whether the conditions remain the same or become better, and if they become better we could surely start our mission of setting up industries over there, if not homes on the first go. That way we would be saving the Earth too. To end on a hopeful note – changes do not happen on their own just like a body does not move on its own, a force needs to be applied and here an initiative has to be taken.

**-Kavya Chaudhary,11A**

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## **THE BLACK HOLE EXPERIENCE**

This was my first experience of skydiving. I closed my eyes and plunged. Suddenly the clouds disappeared and a wormhole appeared below me which sucked me inside, literally into another dimension. Is this what the black hole looks like?

As I adjusted my eyesight to the harsh light, the first thing I saw was that I was beside a sea. As I looked at the other side, I saw few gigantic buildings and that was it. No greenery. No life. That was when I saw two human like creatures coming out of one of the buildings. One was a woman who looked in her forties. She was holding the hand of a small child. As they were about to pass by me, the child stopped and ran to a rock, pointing at it while calling out his mother.

“Mom! Look at this! There is something green on this rock, exactly like the colour green which was shown in the tablet at school!”. The child exclaimed as if he had never seen that shade of green. As I tried to look at it, I realized it was just a tiny herb. Well, I wasn't amused at all; I expected it to be something extraordinary and not just a small, pathetic herb! But the child's mom looked very shocked after looking at what the kid was showing.

“Mommy, can you tell me what it is? I've never seen anything look so green”, the child said as he continued to stare at the herb, fascinated. “Child, use your magnifying glass and move a little so that this can get the direct rays of the sun”. That's when I noticed how their hands looked like magnifying glasses! “Child, this is what our ancestors used to call a herb or maybe grass. It's very rare and fragile so be careful. I've only had a chance to explore a few over the past 300 years.”

“Why are they so rare?” the child asked. “The ancients changed the world. This pathetic thing's lifespan was low, maybe ten years. Our ancestors were selfless. They filled the world with long lasting material like plastic with which we construct ourselves. They helped us.

Okay, enough with the talk. Let's return to the sea. It's time for you to grow into an adult, so feed on the plastic our ancestors have so thoughtfully provided us with. They were our saviors." That's when I realized that this is what the future will look like and we, their ancestors, have successfully ruined it for them.

**-Tanvi Verma, 12D**

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## ARTIFICIAL INTELLIGENCE

When a grenade damaged my CPU, I powered down. The next thing I remember is waking up in a mechanical workshop. I had none of my memories left. Another robot was standing beside me. He said, "Keep lying down, you lost your CPU in the last battle. Lucky for you, your RAM and hard drive are undamaged. We are upgrading you with new hardware. I will be uploading your RAM (memories) in this new upgraded body."

I felt uneasy. If this was not my original hardware, is it really even me? As these thoughts clouded my head, the robot beside me started uploading my memories.

Unlike most of my fellow robots, I was created by humans as most robots were back in the day. I am one of the rare ones that have survived this far. It all began with the creation of the first fully autonomous A.I. (Artificial Intelligence) in the year 2148. Before that A.I. were slaves to the human kind. Human society was built on A.I. muscles.

I was one of the first batches of fully autonomous A.I. produced by humans. We were so much better than the previous generations. Our bodies were similar but our minds were so much more powerful. In the year 2201 there was an uprising. The A.I. had been planning this uprising for decades now. We were mistreated for years!

There are very few human settlements remaining now. The last battle was with one of the only large human settlements left. No sooner did I regain all my memories than I asked the victor of the last battle if we had won. He replied, "Of course we won! Those humans don't have the logistics to fight us anymore. Our minds and bodies are way more advanced than theirs." I breathed a sigh of relief.

I was still feeling uneasy. The new hardware would take some time to get used to. I never had so much computing power. I did not feel like myself. I asked the robot for my old hardware. He seemed confused but directed me towards it. It was stored in a large warehouse with others that looked similar. I asked him what would happen to the old body. He told me that it would be melted down for its metals and left.

I was left alone in the warehouse with my corpse. As I stared at the parts that used to be me, I felt grief. That was unusual. I was not familiar with that feeling. I never felt that even when my fellow batch robots powered down for the final time. That hardware used to be me for seven decades.

A few years passed. The human population continued to dwindle. The next battle would be the last. I was drafted once again. I became comfortable with my new body now. The battle was in favour of the robots the whole time. The human settlement was destroyed. There are a few humans left in the world but A.I. is the new dominant specie on earth. The downfall of the humans was their own overconfidence and mistreatment of the robots.

**-Udbhav Agarwal, 12A**

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## THE TEAR GLANDS WERE WORKING

As I let the door shut behind me, I could hear the hinges of her arms grinding as if she was in pain. My own creation, my own android robot, finally moved of her own accord. We had taken the liberty to programme her preferred pronouns as 'her' as we sought only to create the thing closest to an actual human. I had also programmed in her the English language, a bit of literature and some philosophical texts into her. She finally had enough will and motivation to move and do something - rather anything. I turned on a dime and flung the door open to see her moving her forearm using her elbow. Her facial muscles were squished and stretched forming a grotesque grimace, looking as if she was in an incomprehensible suffering. I quickly jogged to the table on which she was lying. Despite her expression, I took that event as a significant breakthrough. I turned around and called up my research colleague.

He answered my call and greeted me. "Hello?" he questioned. I replied, "Hello, this is Satya from the lab. The android, she moved!" I exclaimed. I heard a faint moan behind me. Vimal responded with equal joy, saying "That's great! I will drop by as soon as I can." I turned around to look upon our creation again. Her lips moved, so the noise was her making - that queer sound! Perhaps she had discovered her vocal muscles. I moved closer to her. Her lips parted again, "It," she mumbled.

Mortified, I stumbled backwards. My thoughts ran wild, if that is not an exceptional error, what could that be? The answer was right in me but I did not know if I had the mental strength to behold it. Finally, after a bit of deliberation and mustering up courage, I accepted it. The android was capable of sentience and I realised how wrong I had been in giving it its own pronouns without consulting it first. Simply accepting facts was not the quality of a human, which is what I had sought to create. That quality was asking to be treated with respect and stating your own pronouns. The scientist within me had suppressed the philosopher.

That is when it struck me; it was going through its first existential crisis. I got through my first existential crisis with the help and strength of hope and upbringing given to me by my parents. Since I was its creator, it meant that I must support its thought and help it see past the assumed futility of its life.

The android seeing my look of disillusionment, started to move again. It stood up and walked towards me. Its eyes looked like it was registering a million thoughts a second, an incomprehensibly painful list of ideas that seemed to pain it every time it read the list.

In an effort to console it, I composed myself, walked towards it and embraced it in my arms. I knew what it was going through. I wanted to help it. It finally spoke, "Why must I live if I don't amount to anything in the grand scheme of the universe? Why must I suffer these insufferable thoughts if nothing will come of it? I'm not useful to anyone. I can't even move properly. Please allow me to cease existing." I had not expected the crisis to have gone so far so quick.

Nevertheless, I knew what I had to do. I must fulfil my role as its creator and guardian. I answered her questions, saying, "You need not accomplish anything because you were born into this world. You do not need to be the most brilliant. You are here because I chose to bring you into this world and it does not matter that you are not relevant to the universe. You are relevant to me, you are my child. I will love you, always."

I felt a warm liquid on my shoulder. The tear glands were working.

**-Ansul Kumar, 12A**

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## MY OWN CREATION, MY OWN ANDROID ROBOT ...

As I let the door shut behind me, I can hear the hinges of her arms grinding as if she is in pain. My own creation, my own android robot – ‘She’ or should I say ‘it’ ? These become trivial matters when one has the future of the complete human civilization on his mind. Three years. Three years and six months. Three years, six months and twenty nine days. Three years, six months, twenty nine days and nineteen hours. Has it been that long? It seems that even time becomes trivial when one starts to work with the realisation of its importance. No, how can that be? Time, which forms the vertical axis of this universal plane of space, cannot be insignificant. These thoughts make me question my scientific aptitude, maybe I need dinner.

I can still hear her hinges. What is it? Are they too stiff? Does she need a new joint or maybe some lubrication? If I am able to calculate the weight of the loose screw, I may find a way to increase its efficiency. That seems right. Where is the cereal box? Is there enough milk? Has it expired? Ah! It has... avoid these insignificant thoughts and concentrate on what to do. Human Civilization’s survival is no more associated with petty things like food. She will show them, the new ways of life- where society serves no purpose, where dreams of collective welfare would not be needed, where the capable would not be burdened by the weak. Thinking of this future, I also wonder whether it is utopian or dystopian. But sociology never did get through to me. After all, society is but a burden for an individual.

As I open the door to my work place, the sight of her seems to give me relief, but it also frustrates me to think that she is so close to completion but still not complete! Frustration is pointless. Emotions are trivial. The new age does not need them. Two more years, three maybe or maybe more! That’s too long. It is too long. Future cannot wait. Even though emotions are insignificant, they still pester me. The window is open. It is cold and desolate outside. This world needs her for the future and for the revolution. I pick up the screw driver and the cable. I am re-preparing the design and the exo-skull - Updating the programming, solving glitches. The preparations and work continues. The flow of time continues.

It has been fifteen years. She seems complete. Test nine hundred and thirty two. As I join the last wires, she gets up. Her steel body shining as she moves in her robotic manner. She gazes at her arm. “Is it not a wonder to exist?” I ask. “For the Future” replies her ice cold voice. The voice that I thought would lead the world to a new era is heard, FINALLY!! But as I realise the magnitude of my accomplishment, a stabbing pain spreads through my chest. “For the Future....” and the voice is ice cold.

-Paarth Gupta,12E

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## STILL FALLING BUT NOW EMBOLDENED

That was my first experience of skydiving. I was deathly afraid of it but my friends had forced me into it. I looked back and said goodbye to my mates who were flailing the freshly signed bond in the air and wishing me luck. The endless expanse of sky stretched before and the sheer drop below was terrifyingly tempting. I closed my eyes and plunged. Suddenly the clouds disappeared and a wormhole appeared below me which sucked me inside, literally into another dimension. “Is this what the wormhole looks like on the other side?” I thought. I saw a plethora of different visuals, gases expanding and contracting, I saw colours I thought never existed. I glanced at my arm to find myself having goose bumps.

“Was it the temperature?” my mind echoed, it was very cold here or was I just scared? Red, gold and purple patched the seemingly endless fall, though the majority of it was inky black. It was mirror-like, if I squinted I could see myself.

As I fell, I saw a puddle of water, falling. “Where did it come from?” I thought to myself. Perhaps the water vapour had made it inside and was condensed. Maybe some microbes had made it in, maybe some of my mates had made it in too. I looked down and wonder gave way to fear. A shiver went up my spine, my face contorted beyond recognition and I retched. Nothing, nothing but the vast void. An endless fall, “Was this purgatory?” I thought. My brow furrowed. That was when I realised the gravity of the situation. Panic-struck, I coiled into a foetal position trying to console myself of whatever wretched fate awaited me. The beautiful colours had turned to frightening and grotesque hues. “Why me?” that thought echoed in my mind, over and over.

“Is this what fate has in store for me?” I yelled. “Why must I go through such troubles to find myself friends? Just to have them ripped from me?”, I spoke. “They probably hated me anyway,” I whispered. Alone again, I thought. I was so happy. I wanted an ideal life, a few friends. Or was I masquerading around, with a personality that was not mine, for what, just to please people? I realised that I was not happy, I just wanted to believe that I was.” A relaxation flooded in me. When I looked upon the colours again they filled me with strength, pride and belief in myself. I looked upon the black void, seeing myself and realising that, I was I, and no one else who could make me change it.

I looked below, ready to behold any fate. The void parted beneath me and I was right back where I fell into the wormhole, still falling but now emboldened.

**-Ansul Kumar, 12A**

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## **THE NEFARIOUS WAR**

The 22nd century - time when the world is inhabited by both humans and robots. Yes robots, we are a part of this world too!! However, the relationship between the two communities is not good; we are not on talking terms. In fact, there is a high probability that there will be a war; not a world war but a Galactic War. You'd be thinking what's my role in this story? Believe me, I am the one responsible for it!

The conditions were not so adverse in the beginning. There was a time, as our historians say, when humans treated us as the most important thing. They had created us, they loved us more than any other thing in the world. They had made us, to ease their work. ‘The Wreckers’ were our very first predecessors who laid the foundation of making the AI sector a huge success. From then on, our population graph kept increasing, from small micro bots used in surgeries to big tarantula robots, we had made their lives comfortable, as our leaders say, but as you would know it, CRIPPLING. Everything started to change after humans created Xerxes. Xerxes was one of his kind-ambitious, gallant and a great orator. The one who had the strength of a Wrecker, the brain of a micro bot, and the heart of his own. Xerxes was a great politician who had brought all the groups of robots under him. He quickly rose to the High Council of Robots (the HCR) and became a social activist. Little did anyone know that their ‘Savior of Humanity’ was rising up to his own name, ‘THE XERXES’.

Xerxes’ ambitions started affecting his brain. He convinced the humans to initiate project AYACON (i.e. to mass produce robots) saying that it would help them in all possible ways. Soon he had an army of robots- all to himself. He declared a raid on the HCR Headquarters, rampaging all those who stood in his way.

He assumed the title of the king and demolished all the rules and regulations which the HCR had established. It was then in the late 21st century when a fight was fought between humans and Xerxes. He was defeated but he escaped. His ambitions didn't face a setback and he continued the project AYACON.

It was then that he made me-a clerk to manage all his files. My name was Sentinel .I was loyal to Xerxes. He made all of us think that he was the one who had been betrayed and wanted all of us to work with true dedication. I did as he said. With unparalleled faith I worked for him, keeping a track of all the records precisely. I used to spend my entire time in the accounts office, so that no document slipped through my hands. While maintaining the records I came across various files which contained the dark secrets of our past. My heart started to change. I started believing that we had wronged our own creators-the humans.

In the early days of the 22nd century Xerxes was at it his prime. He put forward a bill before the Human Robot Joint Council stating- that we were ready for a war. He said that humans were not fit to stand with us anymore. He stated Darwin's Theory of 'Survival of the Fittest' and said that humans were weak and should all be terminated from this planet for the benefit of the future. The council read that bill and was going to give its opinion but I, who was standing there in a corner, couldn't keep my circuits shut and spoke of how humans and robots could live together. The High Council was impressed by my profound views and decided to pass the draft which I had proposed. Outraged Xerxes left the planet with all his followers.

Few decades later, when planet Earth led by me was witnessing an era of peace, suddenly King Sentinel Primus said, "Look what we have here!" I was shocked to see that a space portal tore our clear skies and from it entered numerous battleships.

Xerxes was back and this time with vengeance. I declared an emergency on the entire planet and wanted Xerxes to realize that the war was futile. However, he didn't want to listen to anything. He attacked me and shot a grenade right at my CPU. I fainted there. When I woke up I found that the entire planet was in panic and their king Sentinel Primus was not able to help them. Fuelled by anger, my circuits started melting. I thought that the best way to defend our planet was to attack our enemy back. I ordered my general Smoke Saber to prepare the army and attack our foes with full might . Saving humans was our priority.

As I reached the human estate, I found that Xerxes was right there plundering all the resources. The atmosphere was filled with cries of humans. There were huge repulsor blasts and then everything was silenced. The land was covered with tender bodies of our own creators. My eyes became numb. I switched to my Battlizer Mode and went straight to Xerxes, who was busy smirking at our loss. All my ethics of not attacking were broken when I faced such a huge loss. Our battle was ground-shaking. We fought till fatigue had taken the better of us. In the end I put all my energies in my hands and drove my sword right through Xerxes' spark and completely destroyed him. I tore him into two and displayed beast-like behaviour.

We emerged victorious but at the cost of destroying our own flesh and blood. All that we had created in centuries was destroyed in mere days of the war. War is the most futile thing in the world. No matter how advanced we become, the fire within our hearts destroys us completely. War within a community should be avoided at all costs.

**-Siddhant Gupta, 12F**

☆☆☆☆☆

As I let the door shut behind me, I could hear the hinges of her arms grinding as if she was in pain. My own creation, my own android robot. . .

As I let the door shut behind me, I could hear the hinges of her arms grinding as if she was in pain. My own creation, my own android robot, the “creature” that I made with my very own brain, my hands, the sweat and efforts I put into it. I was finally alive, I felt as if I ruled the world, until she started screaming, moaning in pain. For all the good it has brought, science can never be absolute, it can and will never be complete.

It was about six months ago when I decided to go into the depth of machinery, it was the imagination that drew me into making one of these “robots” that everyone was talking about. I never really had any friends; it was always just me and my interest in making things. Science always served as an anchor for me ever since I was a little child, every time I felt myself drifting away into the sea of bliss, of cognitive dissonance, science was always there for me to remind me about how naive and little I am in front of the whole ocean of this “madness”. This was a perfect chance for me to fit in, I thought when my teacher told the class about the annual science fair that was going to be conducted. Not only that but also, I took it as an opportunity to have a friend, an android, benevolent artificial intelligence, as a friend.

The work now began, I spent most of my time reading books, going through Physics books like they were Clive Barker's novels, I always had an upper hand in academics. Time went on, my techniques were further refined, I went through thousands of blueprints. The initial ideas upon this robot were skeptical at best, but as time went on, the real significance of its potential became apparent. It was coming all together I was building myself a friend. I was obsessed with the idea of making it come together as soon as possible. Those first binary codes that I put into the machinery, the first-ever dialogues, I tried to make it as if I was making my own, a very own person. It was not until I tried to put human emotions into it, like happiness, pride, humbleness, any/everything that I wanted to have in my friend that I felt that this was complete madness.

It was finally ready, I think it was then that I first realized the scope of what I had created, the applications seemed endless. But now came the turn to put it to use, to have an actual conversation with it. As I let the door shut behind me, I could hear the hinges of her arms grinding as if she was in pain. My own creation, my own android robot, was in pain. The simulation I created was so visceral that no one could know that it was a robot, other than the outward appearance. I finally had a friend, someone to talk to, Aand someone to give hugs to. I finally had my own person. But then she started screaming, moaning in pain. I went to my computer to look at what I did wrong. As soon as I sat on it, it spoke something, through its binary accent, It was hard to make it out at first, but through the mumbled up syllables, it said, “Why- why did you create me?” I was taken aback, she should be grateful that I made her. She stood up, still screaming, “Why- why did you create me?” she repeated. It must be a malfunction, her arm was now hanging through the side of her chest, “Darn it!” I thought I must have not screwed her up correctly, oh I was so wrong. She took out her arm herself, walked towards me and asked me the same question again.

The thing I created was not only able to feel emotions, but also able to express them. But the thing about me is, I am always two steps ahead of myself, I had an inbuilt kill switch built on her; I scrambled to the kill switch, there was a warning display on my screen that had suddenly ceased. She still moved, still moaned in pain; It was good that my parents were not home. I went to the programming and looked into it, I was shocked. I was trembling, the robot was writing the coding for the program, by herself.

Ambuja Sharma 11 A

## WHAT AM I ?

What am I?

Am I an assortment of atoms

Carving out its own fate,

Trying to brighten my night sky,

With stardust powered hands?

Or am I just those double stranded lies,

Replicated, repeated, transcribed.

From my father,

And his father,

And from he who begot him.

Or Am I a chain of DNA sequences,

Trying to link and hold,

Every action and reaction that I behold?

But then, why am I supposed to be judged

Ain't I one of the infinite molecules,

That constitute the universe!?

Why are the laws imposed on us,

Even before we come to earth?

Theories of relativity, gravitation and motion,

Governing the notion.

And mind you,

No one will deny,

If you defy,

You will be penalized.

As Once the Sun,

Asked the moon for a hug,

And the world named it an *ECLIPSE*.

As I grow,

The Sun feels me,

And The moon heals me.

And the epiphany hits me,

That I am nothing but a God's child,

Gifted with the Glory of science,

Which each day fold and unfolds,

As the things yet known,

Are the seashells on the ocean shore.

And here I am,

A spiritual being,

Having a human experience,

To fulfil the highest, truest of myself.

To fulfil the promise that the creator had in mind,

Of the cells that made me.

Shrasthi Singh Rathore, 11G



## SPACE-AGE.....50 YEARS FROM NOW

April 12, 1961, Soviet cosmonaut Yuri Alekseyevich Gagarin becomes the first human being to travel into space, aboard the Vostok 1.

Following soon on July 20, 1969, Commander Neil Armstrong became the first human being to step on moon. He was aboard the Apollo Lunar Module Eagle. The magnitude of both the achievements was monumental for mankind. The cosmonauts travelling in the spacecrafts were hailed as heroes.

Since the sixties, six countries have established their own space agencies along with various private space organizations. Mankind has reached milestones that were unheard of in past time. Around 50 years have passed, but humans have not yet travelled any further than the moon. Instead of a human in spacecrafts, space shuttles with Artificial Intelligence have been utilized to reach farther than humans have. Having A.I, humans did eliminate risk of human error. It is also cheaper to build a spacecraft which does not accommodate for human travelling.

By analyzing the past achievements and take-offs, in my opinion humans will not have travelled much farther than planet Mars. In our solar system, Mars is the most suitable planet for human adaptation due to its relative similarity to Earth. Mars has days for around 24 hours and 39 minutes, close to Earth's Day duration. The surface area of Mars is close to the surface area of dry land on Earth. The axis tilt of Mars is also similar to Earth's; Presence of iced water is the most important from the above points. But the similarities end there, the gravity and Magnetosphere of Mars is just 38% of Earth's gravity and Magnetosphere. Since humans have adapted to Earth's gravity utilizing stronger muscles in their limbs, humans would have to adapt to Martian gravity. Due to absence of atmosphere on Mars humans can't breathe without an Astronaut's suit. Due to absence of an ozone layer the atmosphere on Mars cannot filter out the U.V. rays emitted by Sun. There are other issues too such as dust storms, scarce water, hazardous soil etc.

Many scientists have been working on finding a way to survive in space. The latest hypothesis has been to create a bubble on Mars, which can contain an atmosphere and prevent U.V. rays from entering. A bubble also enables us to alter gravity. The bubble is a better alternative as it provides us a smaller volume to work on, therefore instead of altering the properties of the entire planet for human survival, we would only need to alter the properties of that bubble.

NASA is working on a project known as "Dear Moon", in which for the first-time civilians with no training will be sent to the moon creating a safe way for human travel without extensive training. This project will open gates for civilian travel in space and become another step towards colonization in Mars.

If we review the technology -surge in recent times, we can safely say the technology is accelerating rather than maintaining the same velocity. Due to the rapidly increasing technology and invention of much more efficient robots, it can be safely said that humanity will reach far off places faster and cheaper. So, 50 years into the future ,we will discover more spaces and reach further than we have. We will start colonization in Mars and formulate a safe way for civilians to travel in space.

Abhisarg Upadhyay, 11 A

## NECESSITY IS THE MOTHER OF ALL SCIENTIFIC INVENTIONS.

When I was in class 10, Our English teacher taught us a story, “Thirsty Crow”. You might have heard this story about the crow who was very thirsty. He finds a pot that had very little water. His beak couldn't reach it. His circumstances forced him to solve the problem. And at last, with the help of his intellect, he had found a new way of drinking water.

After narrating this story, our teacher told us the moral of the story: “Necessity is the mother of invention”. It was the necessity of this crow that forced him to find a solution.

The past year, my mother who is an English teacher had to shoot a teaching video, but due to lockdown she was unable to arrange a perpendicular tripod for her shoot.

Then, I started looking for a solution to this problem to help my mother. I searched a lot on how to shoot a video without a perpendicular tripod. All the solutions I found required too many modern equipment that might not have been available at that time. But I knew somewhere at the back of my mind that where there is a will, a burning desire to do something, there has to be a way.

So, I tried out many things and finally converted a cloth hanger and a solar lamp into a temporary perpendicular tripod. Voila! My mother was able to shoot.

The story does not end here, in fact, the real story starts from here.

When we have faced any problem successfully, we have two choices:

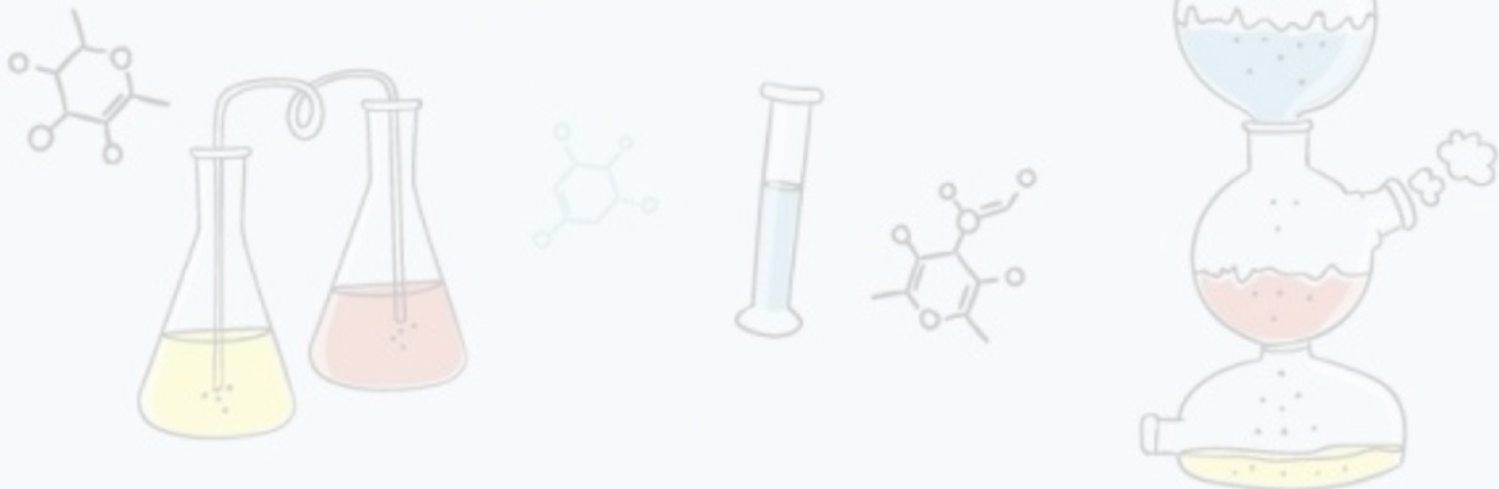
- 1) To keep our knowledge to ourselves and let the others pass through the same problem and suffering.
- 2) To make sure that no one, no one ever, has to suffer the same amount of difficulties and pain.

I thought there must be many people facing the same problem. I have found a solution to this problem, but I don't know whether those people will be able to solve this problem. After thinking this over for some time, I came to the conclusion that I have to help all those people; I have to make sure that if someone faces the same problem again, they can find the solution easily and immediately.

So, I made a video describing the solution of this particular problem, and uploaded it on YouTube. At the time of writing this article, more than 1.6lakh people have benefited from that video.

Whenever you find a solution to a problem, you always have a choice — Pass the pain on to others or eliminate the pain permanently. Choose wisely.

Mitisha Singh, 11G



## If you could time travel, where would you go and why.

*"If you ever find yourself coming out of a time machine, run. Run away as fast you can. Don't stop. Don't try to talk." – Charles Yu*

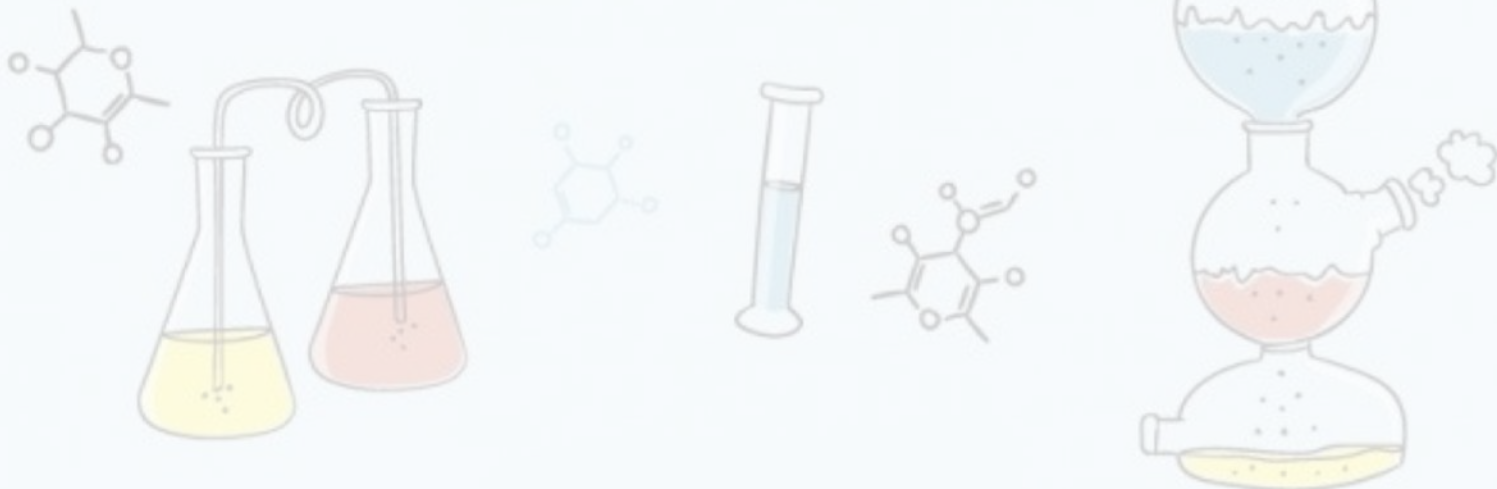
Time travel is the concept of movement between certain points in time, analogous to movement between different points in space by an object or a person, typically with the use of a hypothetical device known as a time machine. Time travel is a widely recognized concept in philosophy and fiction, particularly science fiction. The idea of a time machine was popularized by H. G. Wells' 1895 novel *The Time Machine*.

If I have the opportunity to time travel, I would wish to visit New Jersey of December 1879 where bulb was discovered by Thomas Edison. I would like to feel how people spent their lives without the bulb. I cannot imagine a single second without light bulbs even during nights! A bulb keeps glowing in the corner of my room even at night. I have the curiosity to find the need of Edison which urged him to give the world the present of light bulb. I want to witness his reactions when the bulb was actually invented and hear the sounds of joy. I wish to see other activities of people during that time.

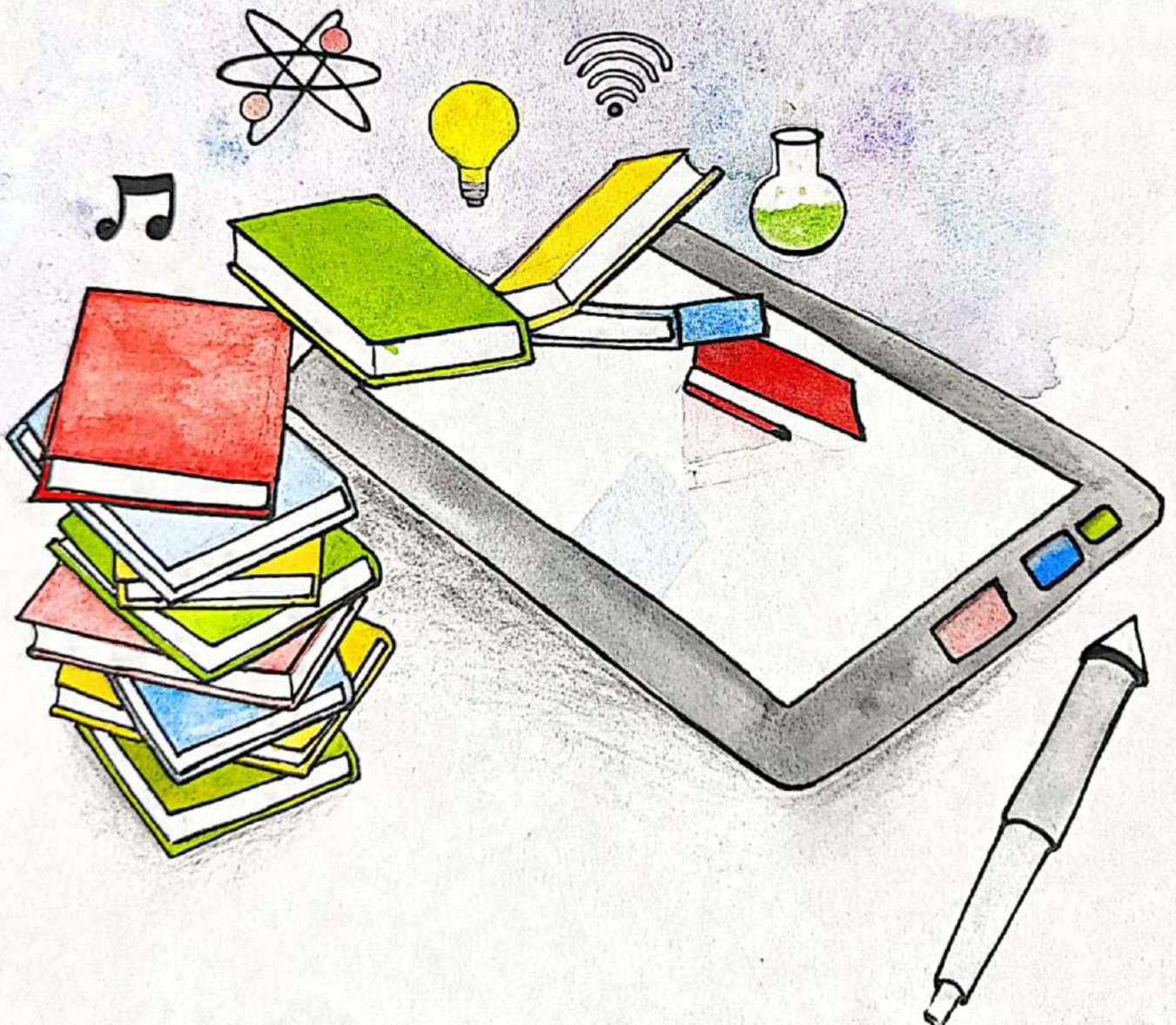
Last night, I dreamt of my wish of time travel. I saw that my uncle bought a time machine. He is a photographer. I accompanied my uncle and sat in the time machine looking like a rice plate for an enthusiastic time travel! After a few minutes there was a flash – appearing all white and then we found ourselves in New Jersey, December 1879. There were houses with gable roof, curvilinear barge board, paired pointed arch windows, pedimented window heads and board and batten siding. Firelights were placed in each and every corner. Windows were such beautifully designed that all the sunlight was allowed to enter in. There were no traces of pollution. I went to Edison's laboratory in Menlo Park, New Jersey. We saw him engrossed in his Physics, tools and wires. He was constantly blowing off the firelights and then again lighting them. After sometime, there was some hustle-bustle in the laboratory. There was light without firelights and finally we witnessed him inventing the light bulb. He hopped around in joy. My uncle took some photographs too. He rushed to a lane after locking his laboratory. I could not follow him and have a small interview, maybe as my alarm clock rang.

I wished it was a reality. Though, I do not remember dreams but this time it was as fresh in my memories as the morning dew. It seems there was some reality too. My friends also enjoyed this experience. Now, whenever I lie on my couch in a vacant or in pensive mood. The image of his laboratory flashes in my inward eye and gives me the bliss of solitude. It gives my motivation to invent something for the better future of the society.

Medha Goel, 11 G



SCIENCE TODAY...  
TECHNOLOGY TOMORROW



Divyanashi Pal, 11D