

SPECTRUM

Efforts which turned to successful colours



E-magazine - Grade IX - 2021-'22
INDIAN SCHOOL AL BURAIMI

Mr. SHAHEEN K.K, SMC PRESIDENT



President's message

Dear students,
Greetings!

First of all let me congratulate you all for your wonderful articles in your class magazine. Class magazines always showcase the vibrant talents of the class. I am happy to see the talents exhibited by you in various kinds of articles. After having gone through the articles I sincerely feel school nurtured various talents in you. World is changing in a fast pace. In order to cope with the competition we need to acquire various skills so I suggest you that, whenever you get a chance to express yourselves please do not miss the opportunity. You may stumble in our initial efforts but ultimately you will reach to perfection. Class magazine is such an opportunity and you all utilized it in an efficient way and expressed yourselves in unique ways. I appreciate your efforts.

I thank all my colleagues in S.M.C for their constant support. I appreciate the Principal for his guidance and staff members for their hard work in bringing out the e-magazines. I deeply appreciate the efforts of parents who constantly supporting and encouraging their children to actively take part in school activities.

Regards
Shaheen.K.K
President, School Management
Committee.

Mr. SANTHA KUMAR DASARI, PRINCIPAL



Principal's message

"Self-belief and hard work will always earn you success"

Dear parents and students,
Our goal is to continue to improve the quality of education we provide to our students.

The world of 21st century is changing at an accelerated scale. It is a challenge for educators to cope with the changing world and prepare their students for the future. It has rightly been said that "Children need to be taught how to think, not what to think."

In spite of all the challenges posed by the pandemic and the fast changing world, our school management is investing its time and efforts to inculcate creativity, critical thinking, innovation, divergent thinking along with proper values of life for its students. I witnessed the mentioned skills / qualities in our class wise e-magazines.

The creativity in children found "Expression" only because of strenuous efforts of the editorial board and the active participation of students, needless to say the committed and supportive management, dedicated and caring staff, cooperative parents who worked in the back screen to bring out the best in children.

I thank President and members of the School management committee, parents, staff and students for the support extended to bring our e-magazines on screens.

Regards
Principal



Mrs. TINTU ROHAN, CLASS TEACHER

Class teacher's message

“All our dreams can come true, if we have the courage to pursue them”.

Student life is a beautiful rainbow with flying colours of lot memories, hopes, aspirations and thoughts; but sometimes it's yet a bittersweet part of life for young minds. Children go through certain struggles during this time. Do not give up and get desperate in the teeny tiny challenges! Remember that every problem is a challenge to prove yourself and it's an open window to attain some skills which are yet to be developed for a bright future. Keep trying, and eventually you will be successful.

If you have willpower, courage, and determination; no one can stop you from aspiring it. I am sure that the SPECTRUM has unfolded the imagination of young leaders and it has unleashed a wide range of creative skills that give life to your thoughts. If you believe in yourself, you do not have to fear any challenge. Do not just live a colourless life when there is a spectrum of colours are available for you. Please don't confine yourself instead express yourself.

Let me remind you that luck is the sense to recognize an opportunity and the ability to take advantage of it. Everyone will undergo breaks and challenges, but the one who thrives all those obstacles will surely succeed and they will soar like an eagle. Believe in your caliber and success will come along.

Good luck!



**“Books and doors are the same thing. You open them, and you go through into another world.” –
Jeanette Winterson**



AKSHAY KRISHNA - Grade IX

If I were ‘The ruler of a country’



If I were a ruler of a country, I would be giving my citizens a better life, more opportunities, and happiness. My country would be prosperous, and everyone would be equal. My country would be a democracy and it would protect the people from the violence of war and terrorism. My country would respect other countries and cultures. The people in my country could live their lives free of fear. My agenda to make the world better is progressing nicely because I believe we should learn from other societies, countries, and cultures. The rights of citizens in a country cannot be Maimed or taken away because of a belief system or religion. People should have the freedom to be whatever they want to be. Everyone should have access to education. I would help the special need kids or the handicap ones by emotionally medical and make learning easier.

All endangered animals would get instant protection. The nation should have a healthy environment. I would make playground in every society as now a day's children are not having space to play and least interest in sports. My country would have a modern hospital that is well-equipped. I would make all cars electric so that I can protect environment from pollution. In my country, you would not have to worry about food as well as health care because each citizen would be able to enjoy a steady income. I'd have the right to express myself freely and I would be free from worry and fear. My quality of life will improve if I were to have these rights granted so do not take the cruelest thing you can think of and imagine me in a world without them. In conclusion in my country, you could hear birds chirping by a crystal-clear lake or stand in a garden bursting with vibrant colors would be a pleasant sight to behold.





LAKSHMI BALASUBRAMANIAN - Grade IX

THE HUM

"Tommy wandered in the woods, unaware of which path to take." Hannah said. "Suddenly, he saw something dark and spooky in between the trees", she continued, a frown forming on her face. Laila on the other hand crept close to Hannah, looking around cautiously.



Hannah and Laila had been the best of friends since middle-school and were camping out that day. "Common Hannah, can you stop? It's getting dark around here. Let's turn on some music and go to sleep –we can continue reading it later. The fact that we're camping out in the woods and that the story is about a murder in the woods makes it terrible! Oh! Can we please stop for now?" "Cheer up will you!" Hannah nagged. "This is for deepening our friendship-and for getting rid of your fear" Hannah added, a naughty grin adorning her face. They loved to joke around about each other, and giggle at the smallest of things, unbothered about people judging them to be weird. A typical friendship.

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A typical friendship.

The two had heard about a forest that had been haunted by the ghost of a little boy. He couldn't speak when he was a young lad and thus was an outcast. Everyone acted as if he hadn't existed. And then one fine day, he vanished into thin air! Even then, he wasn't in the "MISSING" list of the week.

This disappointed him.



"He was all alone, the poor little boy", the village mayor told Hannah.

He then decided to haunt the woods and its visitors- especially friends who came to have fun. Even after hearing about this creepy incident, Hannah had done some extra research. People said that the boy was never to be seen in the woods, but his arrival would be announced by a quaint hum.

Legend had it that people would get attracted to his sad music and then the little boy would come close-they would see him for a second -last time they would see ANYONE- and then Bam!

Hannah and Laila knew it was not a good idea but they still DID visit the woods!

In the warm and cosy tent, Laila felt a chill running through her spine. "The Hum", she said, widening her eyes. Hannah took off her device, so that the hum wouldn't affect her. Both of them looked around, their eyes literally off their tent. "It's melodious-I could listen to it forever!" Laila said, shrinking back inside, her eyes glittering.

"We've got to go!" she cried. "I think it's true-there's a ghost! You can hear him too! That means it's dangerous. Distract yourself from it and hurry"

"No" said Laila aggressively "Stay".

"Stay!" she screamed.

Hannah noticed that Laila was now not the calm and quiet girl she always used to be. Was Laila..... Hannah realised that they made a mistake. They shouldn't have visited the forest. She thought to herself that it was all her mistake. The ghost of the little boy was now going to harm Laila!

"No, Laila!" she cried.

"No..."-before she could complete her words, an evil grin appeared on Laila's face. "Oh no, Laila. I'm sorry" Hannah wailed.



But Laila wouldn't listen. Her smile got wider and wider and she burst out laughing.

Hannah couldn't hear anything. She had taken off her hearing device to prevent herself from listening to the hum. But what could she do for Laila?

THE HUM Cont....

She was trapped. She didn't know what to do or where to go. She squeezed her eyes shut and moved her hands around the tent, searching for her device. She couldn't find it. She was helpless.

Suddenly, a cold hand gripped her shoulders. Hannah sat there, frozen in shock-she couldn't believe this was happening. She slowly and cautiously opened her eyes- and that's when she saw IT!

Laila had been acting all along! There was no hum! It was a prank!

Both the girls laughed out loud, and Hannah asked Laila to stop playing such pranks for good. "Let's hurry back home", Laila said, still happy that she fooled her friend. Hannah nodded. Just as they were coming out of the tent, they heard the Hum. The REAL hum. Hannah took off her device, but could still hear the hum. Both the girls looked at one another, realising there was no way out.

They saw the little boy.

But the reality didn't seem like what all the people had said.

It was actually totally different!



The little boy looked happy! It felt like he had a world of his own, where he was recognised, carefree and happy. They could feel his happiness.

The puzzle pieces began to fall into place. The previously dull story of the little boy came to life.

The little boy was confident with himself and didn't let his disabilities limit him. In fact, he was a pleasant lad! He was never a negative person! They knew they had to return! And tell everyone, at least the village mayor, that the little boy loved himself for who he was and now led a pleasant life, though it seemed unreal.

Finally, their hearts took over their hopes of returning-They wanted to visit the little boy's world of happiness-They wanted to know what made him so positive. And so, it happened.

The little boy turned around, and the two girls followed him, slowly vanishing under the moonlight.

How calm they looked, unable to realise that they had failed to resist the so-called 'hum'. How calm they looked, unable to realise that they were trapped.

It worked- THE HUM-It always had.

To be continued....





MAHIMA ELZA MINU - Grade IX

CRITICAL WRITING

If you could make one rule that everyone in the world had to follow, what rule would you make and why?

If I could make one rule that everyone in the world could follow, then I would create a rule that will bring a change in the administrative sector of the world. Making a rule alone doesn't give any solution to these kinds of problems, I will try to ensure that this rule is properly implemented as well. I will remove all the acrimonious leaders and appoint all sincere, well responsible and capable leaders in place of them, this is the rule which I would like to make because the world is ruining because of such leaders and they are hundred times harmful than the pandemic (COVID -19) that is ruling us since 2020. They never think of the people for whom this government is for. They behave like this virus at times, they are so selfish that they use up the wealth of the poor also, just like this virus which takes up the life of the poor people. They take up half of the resources provided by the government for the welfare of the people. This is one of the main reasons why poverty is increasing. And it is because of these corrupt people, the chances of sincere servants for the nation and the world is lost, they never get a chance to help the society by serving them without any corruption.

It is because of those corrupt leaders, people doubt the work done by sincere servants as well.

They have spoiled the reputation of their post and still some people blindly trust them thinking that they are restlessly working for the people, but what they do are totally opposite.

I will implement such a rule that will remove corruption and put an end to all the injustice they are up to.





AZRA - Grade IX

IF I WERE A DOCTOR IN THIS PANDEMIC

A doctor is perhaps the most useful member of the society. He is an angel for his patients as he draws them out of the jaws of death. Even at odd hours he is prepared to attend to the patients. His mission is to restore his patients' health. He revokes in his patient a desire to live healthy and purposefully. Such doctors are few and far between. If I become a doctor, I will never ignore or forget the oath I undertook to serve ailing human beings to the best of my ability selflessly. This will prevent me from making my profession a money-minting machine. Especially, in the period of covid-19 pandemic, as there was no antidote for this deadly virus, I would use my previous skills and also try all the possible ways to find the proper solution of this particular disease. As everyone knows that the most important role of a doctor is to save a person's life, so I would try to give all the proper treatments to a poor person who can't afford to pay for his treatment. "All the money in the world can't buy you back good health."- Reba. As, said in the quote health is precious than wealth. During this time not only I would have, but all the doctors had started providing free online consultation services for those people who were unable to afford the treatment. Many people in this profession also went on to the extent of sharing videos regarding exercises and things that an individual could do if they contracted the virus. Everywhere, all over the life of each and every individual was and is in the hands of a doctor. It will be the greatest blessing for me to save a person's life. Where each and every doctor is considered almost equal to god. If I get a chance to become a doctor in this pandemic I would be the most fortunate one. Ever since the pandemic, India observes National Doctor's Day on July 1. The day is marked to honour the immense contribution that doctors make in our everyday lives. In my opinion being a doctor is the most blessed job.

Quote - God cannot be everywhere so He sent the Doctors with excellence and selflessness."



BEBIN SAM - Grade IX

THE OLD WOMAN AND THE DOCTOR



An old lady called in an optometrist* to treat her eyesight. The optometrist examined her and told that she would regain her eyesight provided she paid him a hefty fee.

The old lady consented to pay the desired amount. The doctor advised her to keep her eyes shut and avoid dazzling* light during day hours. The old lady followed the advice of the optometrist and kept her eyes closed during the day time.

But the optometrist wasn't so honest; he took advantage of the situation and began taking away costly household things from her house.

Later, when the treatment was over, the optometrist asked for his fees; but the old woman refused and the matter was taken to the court.

"Who says this optometrist has improved my eyesight", said the old lady in the court. " Before I started getting treatment from him, I could see everything in my house; but now I can't see any of those. The judge instantly understood what must have had happened and orders the doctor to give her back all her stuff or he will be sent to prison,

KEYWORDS :-

- 1) optometrist - Specialists who check for any defects or injury in a person's eye
- 2) dazzling - extremely bright



NEHNA MARIYAM - Grade IX

PHOENIX

"In order to rise from its own ashes a phoenix must burn first."

People say life is short so live your life the way you want,
But how I am supposed to when I don't know what to do with it.

People say I am weak,
And I don't have the courage to live,
But they don't know I struggle to live every day.

People say I am overreacting,
As if they know what I am going through.

People say I should be confident,
How am I supposed to when they judge me for every single thing I do?

People tell me that they love me,
But why do I feel as if it is not real.

Every single morning, I wish I disappear,
So that I don't have to go through all these things again and again.

Every day I wish for a person to be my side to tell me I am worth it,
And to love me the way I am,
But there is no one.

Even though I am crowded by people,
I am alone.

I just want to be loved by real people,
And not by two faced people.
Am I asking for more?

Am I being greedy?
Instead of asking someone else,
I am going to ask myself to love me.

As I am not perfect,



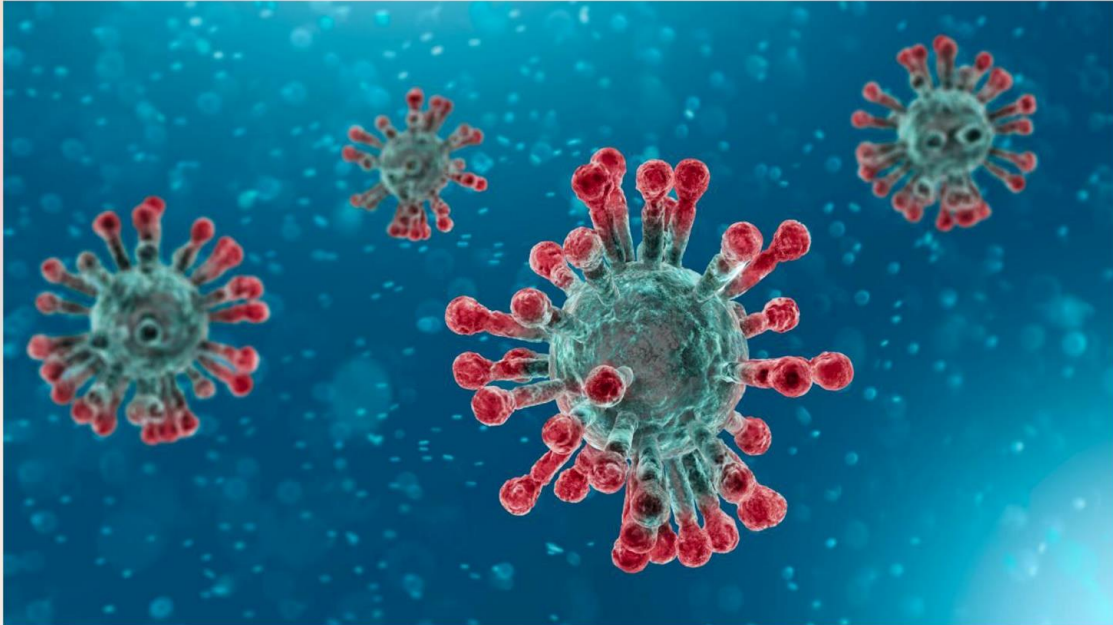
As I am not confident,
As I am weak,
As I am overreacting,
As I am not loved,
Will you love me for me?
And I choose to love myself,
I choose to be happy the way I am,
I choose to be confident no matter what others say,
I choose to live my life the way I want,
Even though I don't know how to,
I will try my best to find how to.
I choose to live like a phoenix,
Even when my world falls apart,
I will make sure to rise and fly again tomorrow,
And to love myself.





ANNA MATHEW - Grade IX

WHAT IF CORONAVIRUS NEVER DISAPPEARED FROM THE WORLD



- If coronavirus never disappeared, then there won't be any effective vaccine found.
- Everyone may have to continue wearing masks, using sanitizers and maintaining social distancing.
- Restaurants, movie theaters, Gyms etc. will have to continue operating under restrictions.
- Sporting events and concerts will be extremely difficult to organize.
- Travel restrictions will continue, and the tourism industry might collapse.
- Lockdowns may continue and people may start protesting, governments will have to find alternative solutions.
- Doctors as well as nurses may have to get used to grueling work schedules.





KASINATH SUDEEP - Grade IX

THE DREAM!



• As I was walking deep, deep into the forest with my friend Raya I felt a little uncomfortable as the climate was foggy. As we were moving on we heard a lot of scary sounds from every direction, we were scared but we continued to move on. At midnight we set our camp and went off for a nice refreshing sleep. Just then a song from somewhere, by someone was heard. Well the song was good but I wondered who will be singing this late, and so deep in the jungle. I went to wake up my friend, but..... She was not there.

I felt really scared. I hurried took the torch and went off to look raya. I ran and ran and ran but she was nowhere to be seen. Just then the song again, I followed the sound. As I was following the song in my mind arouse some strange thoughts, which were will it be a monster a zombie or something even dangerous, but keeping away my thoughts I moved on. As I reached the place, I saw a girl singing. I went to her and asked "Who are you?" she didn't give any reply. I was really scared my heartbeat rose to the highest, she turned and, it was none other than Raya singing that song. I was happy; and took a deep breath and asked "what was she doing this late SINGING??" She stretched out her hands and there was no skin on them it. And her legs turned backwards. I was frightened to know that my friend is a ghost. She stretched her hand towards me I screamed and, just then I fell off the bed and realized that it was just a dream. he said to himself

"what a scary thought did this dream gave me?"





Who is the murderer?

There was a strangely bird-like quality about the dainty women seated at the defense table. Her hands never moved slowly; they darted out like swooping sparrows. And her dark brown eyes had a curiously beady appearance as they focused on whatever claimed her attention

Throughout the trial, she watched the happenings with interest of a participant. Attired in a black dress, she had shown no emotion as listened the witnesses. Not once did she betray any sign of fear if the jury believed those witnesses, their judgement might send her to the derrick. She never hesitated even when her family took the stand. All evidence was in and on the morning of 7 July 1986 the judge stepped in addressed the gathering. 'three verdicts were possible in this case ', he said.

The tragic of events that placed her on trial all began on June 3rd 1986, in the home on street Kansas, which James Shared with his wife and two children. On this Christmas's Day evening, they invited their nearest relative for dinner.

James's wife was in the kitchen fixing supper. With her was a neighbor Mrs. Clara. She complimented her on the heavenly aroma of her dinner, but she seemed in no mood. After the supper everyone returned to their homes. James also left the place just after dinner and was back after midnight, without a single word went straight to his bedroom.

On the following morning, the children heard a loud cry from their father's room. James covered with blood, was tossing on the bed, and onto the floor. His wife (Suzan) sobbed uncontrollably. There was a sudden knock on the door it was a nurse. She tried to find a pulse in James's wrist. But she couldn't feel the faintest tremor. With a cry she declared that he was dead. Next the sheriff was called, according to the evidence found it was a clear suicide. But, here comes a twist it was found there was no marks of gun powder on his hand. Suzan was questioned, but it didn't have any information of his murder. Each and every corner of the house was searched. At last, a bullet's shell was found. the search of the murder weapon was made after James's body was removed from the autopsy. A search of Suzan's call history was done. It was found that kay Ripon was a person to whom she had spoken many a times." Who was kay ??" the sheriff asked Suzan. But she just gave a gloomy look. After investigating, they found that he was her step

brother and also a trained sharp shooter. After many attempts, they caught him and he had said all the truth about the death of James, as he didn't want his sister to be tortured. At the court he was asked a reason for the murder, with loud cry he said "He deserved it. I was his business partner who worked with him for more than 13 years. But, at last he cheated me and took the whole fame for himself. He also said that Suzan was the one who helped him get in without leaving any evidence. He and Suzan were sent to central jail for 14 years.





LUBNA RAFI - Grade IX

مدرستي



هذه مدرستي. اسم مدرستي المدرسة الهندية البريمي. هذه مدرسة جديدة للمدرسة بنائتان كبيرتان و فيها مختبر للعلوم و لعلوم الكمبيوتر. مكتب المدير كبيرة. هناك غرفة لكل صف. هناك مكتبة كبيرة في مدرستي. في وسط المكتبة طاولة كبيرة للقراءة. على الطاولة كتب و صحف و مجلات. امام المدرسة حديقة جميلة. في الحديقة بركة صغيرة و فيها اسماك جميلة ذات الوان مختلفة. في المدرسة ملعب. يلعب الطلاب في الملعب العاب مختلفة في وقت الاستراحة و في المساء. نذهب الى المدرسة في الساعة السابعة صباحا و ندرس حتى الساعة الواحدة بعد الظهر. يقدم بعض الطلاب الى المدرسة في المساء و يلعبون في ملعب المدرسة. تأتي الطيور الى اشجار الحديقة في المساء و تغني على غصون الاشجار حتى غروب الشمس.





AZRA - Grade IX

मोटिवेशनल स्पीकर संदीप माहेश्वरी

उनके बारे में - सबसे प्रसिद्ध और सम्मानित प्रेरक वक्ता हैं संदीप माहेश्वरी उन लाखों लोगों में एक नाम है जिन्होंने सफलता, खुशी और संतोष की तलाश में संघर्ष किया, असफल रहे और आगे बढ़े। किसी भी मध्यम वर्ग के लड़के की तरह, उसके पास भी अस्पष्ट सपनों का एक गुच्छा था और जीवन में अपने लक्ष्यों की धुंधली दृष्टि थी। उनके पास केवल सीखने का एक अटूट रवैया था, जिस पर टिके रहना था। उतार-चढ़ाव से गुजरते हुए, यह वह समय था जिसने उन्हें अपने जीवन का सही अर्थ सिखाया

सफलता अनुभव से आती है और अनुभव बुरे अनुभवों से आता है- संदीप माहेश्वरी

उनकी एक मोटिवेशनल कहानी

निडर रहें, अपनी कठिनाइयों को दूर करें

मैं यहाँ संदीप माहेश्वरी द्वारा लिखित एक कहानी प्रस्तुत करने के लिए हूँ , यह दो दोस्तों की कहानी है जो एक छोटे से गाँव में रहते थे। ये दोनों दोस्त किसी काम से गाँव से बाहर गए थे। जब वे दो दिन बाद अपने गाँव वापस लौट रहे थे तो उन्हें रास्ते में एक जंगल पार करना था, एक दोस्त को प्यास लगी और परिणामस्वरूप वे दोनों एक तालाब या झील की तलाश में अलग-अलग दिशाओं में जाने लगे जहाँ से उन्हें पानी मिल सके। कुछ देर बाद दिन रात में बदल गया। अचानक, दोस्तों में से एक ने पुरानी गुफा देखी, जिसमें से किसी के रोने की डरावनी आवाजें आ रही थीं। सूरज जो दोनों में से एक था, बहुत डर गया और उसे डरावनी बातें और अंधविश्वास के बारे में बताने लगा, यह सुनकर दूसरा दोस्त हंसने लगा। थके हुए दोनों दोस्तों ने गुफा में ही आराम करने का फैसला किया लेकिन सूरज को नींद नहीं आ रही थी। आग से बनी परछाइयों ने उसे डरा दिया और वह सपने देखता रहा कि एक बड़ी डरावनी परछाई उसकी ओर आ रही है। वह अचानक उठा और अपने दोस्त को जगाया और उसे सपने के बारे में बताया , वह उस पर हंसने लगा। लेकिन सूरज उसका दोस्त था, वह नहीं चाहता था कि वह डरे और तनाव में रहे, इसलिए उससे कहा कि जब भी तुम परछाई देखोगे तो खुद से कहना डरो मत, डरो मत, मैं कर सकता हूँ. मैं कर सकता हूँ . मैं तुमसे नहीं डरता, उसने यह कोशिश की और यह काम कर गया, और वह सक्षम था अपने डर पर काबू पाने के लिए। यह वही है जो हमारे जीवन में होता है अगर हम अपने डर को दूर करने की कोशिश करते हैं तो हम अपने जीवन में किसी भी तरह की समस्या को दूर कर सकते हैं। और कोई हमारा मजाक नहीं उड़ाएगा। बहादुर और निडर बनें .





VEDIC MATH TRICK

FACTORIZATION OF QUADRATIC EQUATION

FACTORING TRINOMIALS???

$$2X^2 - 9X + 10 = (?) (?)$$

$$9X^2 + 12X + 4 = (?) (?)$$

$$9X^2 + 31X + 20 = (?) (?)$$

$$2X^2 + 7X - 4 = (?) (?)$$

$$2X^2 - 13X - 5 = (?) (?)$$

Step – 1 : Factorise the coefficient of x^2 and the constant term.

Step – 2 : put x near the factor of the coefficient of x^2

Step – 3 : cross multiply to get the middle term , switch the number if Necessary. And decide the sign by giving positive sign to the biggest product.

Step – 4 : Write it as 2 brackets.

$$2X^2 - 9X + 10 = (?) (?)$$

$$\begin{array}{ccc} 1x & \begin{array}{l} \nearrow \\ \searrow \end{array} & 2 \longrightarrow 4x \\ 2x & \begin{array}{l} \nwarrow \\ \nearrow \end{array} & 5 \longrightarrow 5x \end{array}$$

We need $-9x$ (middle term)

So, $-4x$ and $-5x = -9x$

$(x - 2)(2x - 5)$ is the answer.





ADARSH HARIKUMAR - Grade IX

USE OF TECHNOLOGY IN EDUCATION

- Technology has become an everyday need in the twenty-first century. With the increasing spread of digitalization around the world technology is now not only a way towards advanced scientific developments, It's also a mandatory need when it comes to sustainable development. The use of technology in education is a major call of the hour. By using several technological supporting systems like e-notebooks, e-books etc.. a world full of information can be compressed into a single platform.
- The use of interactive classroom boards, the use of chalk and duster are also decreasing. Also, the teachers can access the internet anytime between the lectures for reference and better understanding of the students. There are a huge number of ways in which study related games and power point presentations help the teachers build student involvement through several technological means.
- Technology also helps students to remain interconnected all the time. In this way they can solve and discuss their problems whenever they wish to. The teachers too can help them out always.
- The use of technology also helps in the decreased use of paper. By doing so not only are trees saved but we walk towards a greener environment altogether. It is important to spread information about saving nature to all parts of the world and technology is the best way to do it.





MAHIMA ELZA MINU - Grade IX

5 AMAZING SCIENTIFIC FACTS

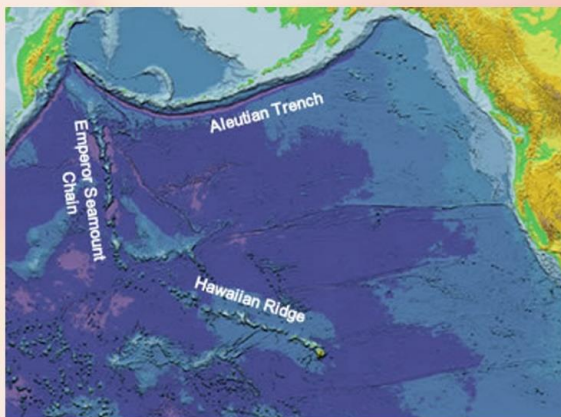
1. The Eiffel tower can become 15cm taller during the summers.



2. A teaspoonful of neutron stars would weigh 6 billion tons.



3. Hawaii moves 7.5cm closer to Alaska every year.



4. Sunflowers are known as hyperaccumulators and they can be used to clean



5. A cockroach can live up to one week without its head.





BEBIN SAM - Grade IX

5 Simple Mathematics Tricks

1. Sum of all even numbers till a specific number
 - For example, take 148
 - Sum of all even numbers till 148 (s) = total number of even numbers till 148 (n) \times n + 1
 - Here, n = $148/2 = 74$, so $74 \times 75 = 5550 = s$
2. Multiplication by 11 (2-digit number)
 - For example, take 36
 - 36×11
 - = (1st digit) (1st digit + 2nd digit) (2nd digit) = 396
3. Multiplication by 11 (3-digit number)
 - 1) For example, take 336
 - 2) 336×11
 - i. = (1st digit) (1st digit + 2nd digit) (2nd digit + 3rd digit) (3rd digit)
 - ii. = 3696
4. Finding the square of any number ending with 5 (2-digit number)
 - 1) For example, take 75
 - 2) 75×75
 - 3) Last 2 digits will be always 25
 - 4) $_ _ 25$
 - 5) first 2 digits = 1st digit of the number (n) \times n+1
 - 6) here, $7 \times 8 = 56$
 - 7) so, $75 \times 75 = 5625$
5. Converting fractions to recurring decimals
 - 1) For Example, take $2/3$.
 - 2) To write the fraction to decimal, let us divide 2 by 3.
 - 3) We find there is 0 times 3 in 2, with a remainder of 2.
 - 4) We find there is '6 times 3' in 20, with a remainder of 2.
 - 5) The remainder, 2, is repeated, so the loop "there is 6 times 3 in 20, with a remainder of 2" will be repeated forever. Hence, $2/3 = 0.6666666...$





What are 21st Century Skills?

21st Century Skills are a few skills or abilities that are intended to be compulsorily possessed by today's children to help them grasp opportunities and be successful in their respective future societies of the 21st century.



As the world is highly competitive and as technology smoothly eradicates many professions which were previously taken up by humans, most learned people and educational authorities believe that in the future, job opportunities will not just be based on academics but also extra-curricular activities, which involves the presence of 21st century skills.

There are 12 main skills that fall under the 21st century skills, they are all unique in how they can influence a person but get united at the fact that they all are equally important for a person to thrive in the Age of the Internet.

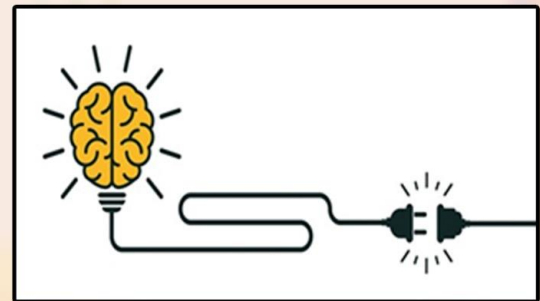
They have been grouped into three main types:

1. Learning and Innovation skills.
2. Literacy Skills
3. Life-Skills

Most of these skills are taught to students by their respective schools, however, to maintain stability in the current Age of technology, students need to have problem-solving skills, teamwork, good communication skills, creativity and many more other traits.

Learning skills are divided into Four parts:

1. Critical Thinking:



Critical thinking is the process of analyzing an issue or a challenging situation to come up with a solution that best solves a problem!

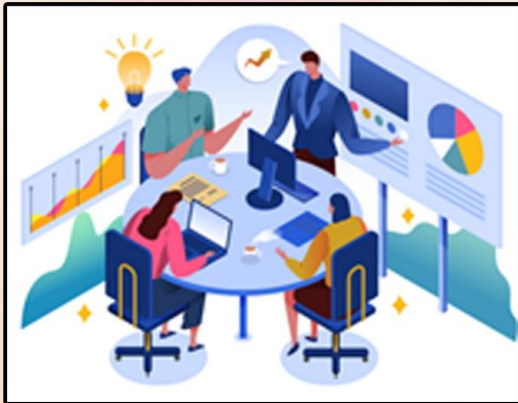
2. Creativity:



21st Century Skills Cont....

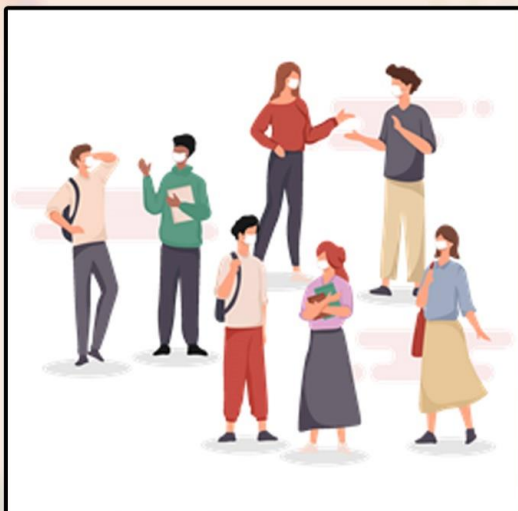
Creativity is the application of imagination and ideas that leads to innovation and creation of something unique.

3. Collaboration:



Collaboration is when two parties work collectively to attain a commonly shared goal!

4. Communication:



Communication is the art of exchanging information or ability of a person to share one's feelings to the society.

Literacy Skills are divided into 3 sub-divisions:

1. Information Literacy:



Information Literacy is the ability to understand and accept facts, statistics and other forms of data.

2. Media Literacy:



Media Literacy is the understanding of the steps taken to publish information or data in a fruitful manner.

3. Technology Literacy:

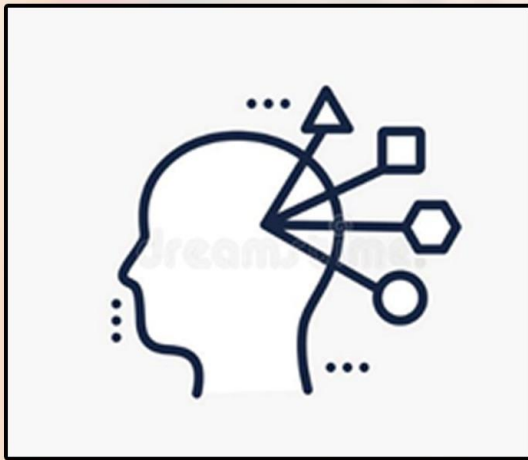


21st Century Skills Cont...

It is the ability to understand and make the right use of machines and other forms of technology that is in common use in the present. This is highly important as the future will be in the hands of those who can handle technology.

Life Skills:

1. Flexibility:



Flexibility is a crucial life skill which enables an individual to adapt to new surroundings easily and switch plans if needed. One must accept criticism and feedbacks and use them to make themselves better to be flexible in nature.

2. Leadership:



Every successful operation has a passionate leader! Leaders should be the role models of their team and possess leadership qualities such as communication, creativity, motivation, positivity and also skills to analyze the team's overall progress and lacking areas in order to achieve their goals.

3. Initiative:



It is the quality to be bold enough to start or initiate a beneficial process/idea.

4. Productivity:



21st Century Skills Cont...

Productivity is the capability of a person to work efficiently and maintain or increase the magnitude of efficiency until the completion of a task entrusted to him/her.

5. Social Skills:



Social skills are those which help us to interact and work with the society.

We children must take the 21st Century skills seriously and begin working on it in order to be audacious when put to the test by our future.

To a question on how to develop the 21st Century skills, the best response is to learn to apply them in our daily life, pay attention to events and make note of the Pro(s) and Con(s) of it, analyze problems carefully and most importantly focus on any simple task given to us.

The worth of the utility of 21st century skills in our daily life will surely, if taken into use, be showcased in the mysterious future that awaits us.

FOR MORE REFERENCE VISIT:

<https://www.aeseducation.com/blog/what-are-21st-century-skills>

<https://www.panoramaed.com/blog/comprehensive-guide-21st-century-skills>





MAHIMA ELZA MINU - Grade IX

MARFA LIGHTS

The Marfa lights, also known as the Marfa ghost lights, have been observed near U.S. Route 67 on Mitchell Flat east of Marfa, Texas, in the United States. They have gained some fame as onlookers have attributed them to paranormal phenomena such as ghosts, UFOs, or will-o'-the-wisp. Scientific research suggests that most, if not all, are atmospheric reflections of automobile headlights and campfires.



According to Judith Brueske, "The 'Marfa Lights' of west Texas have been called many names over the years, such as ghost lights, weird lights, mystery lights, or Chinati lights. The favorite place from which to view the lights is a widened shoulder on Highway 90 about nine miles east of Marfa. The lights are most often reported as distant spots of brightness, distinguishable from ranch lights and automobile headlights on Highway 67 (between Marfa and Presidio, to the south) primarily by their aberrant movements."

Robert and Judy Wagers define "Classic Marfa Lights" as being seen south-southwest of the Marfa Lights Viewing Center (MLVC). They define the left margin of the viewing area as being aligned along the Big Bend Telephone Company tower as viewed from the MLVC, and the right margin as Chinati Peak as viewed from the MLVC.



Referring to the Marfa Lights View Park east of Marfa, James Bunnell states, "you might just see mysterious orbs of light suddenly appear above desert foliage. These balls of light may remain stationary as they pulse on and off with intensity varying from dim to almost blinding brilliance. Then again, these ghostly lights may dart across the desert...or perform splits and mergers. Light colors are usually yellow-orange but other hues, including green, blue and red are also seen. Marfa Mystery Lights (MLs) usually fly above desert vegetation but below background mesas."





MAHIMA ELZA MINU - Grade IX

7 FORBIDDEN PLACES ON EARTH (YOU ARE NOT ALLOWED TO ENTER)

THE NORTH SENTINEL ISLAND, INDIA

1. The North Sentinel Island in the Andamans, home to the Sentinelese tribe, is one of the world's forbidden islands. People in the island are still untouched by the modern world, and know nothing about the outside world or advanced technology. They usually get violent and start attacking those who try to visit the island. If reports are to be believed, the Sentinelese tribe has been living on the island for more than 50000 years under the protection of the Indian Government, and entry is strictly prohibited for visitors.



2. AREA 51

It is where the US weapon testing and army defence tests are carried out. So all of these are conducted in area 51 and they want it to be done in secret. That's the reason why is a forbidden place.



3. POVEGLIA ISLAND

The island was first found in the 421th year BC. Island Poveglia was an important strategic place for the Italians. In the 1379's, with a war between the Serenissima and Genoa, most benefits originated exactly from this island. So, the government decided residents to be relocated to another island and Poveglia to be turned into a fortress, called Octagon. At that way begins a bleak and terrible history of this island. According to a legend, a witch wished the island never again to be inhabited. One of the other reasons for fear was that Poveglia served as a massive cemetery for victims of the Black Death and other diseases.

FORBIDDEN Cont....

More than 160,000 people infected with the plague known as "Black Death" driven to the island to die and then their bodies were burned. In the 20th century, the island remained to serve as quarantine and then the fortress was converted into a mental hospital. It is said that in one of the mental hospitals, there was a doctor who tortured patients. According to legend, the doctor was mad and committed suicide by throwing himself from a window. His body has never been found.

These legends still abound and make Poveglia one of the darkest and most persecuted islands. Today Poveglia is closed for visitors and is known as the "forbidden island".



4. SURTSEY ISLAND
Surtsey is a new island formed by volcanic eruptions in 1963-67. It has been legally protected from its birth and provides the world with a pristine natural laboratory. Free from human interference, Surtsey has produced long-term information on the colonisation process of new land by plant and animal life.

Ongoing biological and ecological processes: Surtsey was born as a new volcanic island in 1963-67 and since that time has played a major role in studies of succession and colonisation. It has been the site of one of the few long term studies worldwide on primary succession, providing a unique scientific record of the process of colonisation of land by plants, animals and marine organisms. Not only is it geographically isolated, but it has been legally protected from its birth, providing the world with a pristine natural laboratory, free from human interference. Above all, because of its continuing protection, Surtsey will continue to provide invaluable data on biological colonisation long into the future.



5. GLOBAL SEED VAULT

It was the recognition of the vulnerability of the world's genebanks that sparked the idea of establishing a global seed vault to serve as a backup storage facility. The purpose of the Vault is to store duplicates (backups) of seed samples from the world's crop collections. Permafrost and thick rock ensure that the seed samples will remain frozen even without power. The Vault is the ultimate insurance policy for the world's food supply, offering

FORBIDDEN Cont....

options for future generations to overcome the challenges of climate change and population growth. It will secure millions of seeds representing every important crop variety available in the world today. It is the final back up.



6. ILHADA QUEIMADA GRANDE/SNAKE ISLAND
The highly feared Ilha da Queimada Grande, or Snake Island, of Brazil is one of the most dangerous places in the world, and a place where human entry is completely restricted to save people from dying an agonizing death triggered by death bites dealt by the island's Golden Lancehead pit vipers. The Snake Island is located 33 kilometers

away from the mainland Brazilian city of Sao Paulo on the Atlantic Ocean. The island encompasses an area of around 430,000 square meters, with an elevation of approximately 206 meters above sea level.



Metro-2 is the informal name for a purported secret underground metro system which parallels the public Moscow Metro (known as Metro-1 when in comparison with Metro-2). The system was supposedly built, or at least started, during the time of Joseph Stalin and was codenamed D-6 by the KGB. It is supposedly still operated by the Main Directorate of Special Programmes and Ministry of Defence.

The length of Metro-2 is rumored to exceed that of the public Metro. It is said to have four lines, and to lie 50–200 meters (165–660 ft) deep. It is said to connect the Kremlin with the Federal Security Service (FSB) headquarters, the government airport at Vnukovo-2, and an underground town at Ramenki, in addition to other locations of national importance.



MAHIMA ELZA MINU - Grade IX

INDIA'S PROGRESS IN SCIENCE, TECHNOLOGY & EDUCATION



SCIENCE AND TECHNOLOGY

After independence, Jawaharlal Nehru initiated reforms to promote higher education and science and technology in India. The Indian Institute of Technology (IIT)—conceived by a 22-member committee of scholars and entrepreneurs in order to promote technical education—was inaugurated on 18 August 1951 at Kharagpur in West Bengal by the minister of education Maulana Abul Kalam Azad. More IITs were soon opened in Bombay, Madras, Kanpur and Delhi as well in the late 1950s and early 1960s along with the regional RECs (now National Institutes of Technology (NIT)). Beginning in the 1960s, close ties with the Soviet Union enabled the Indian Space Research Organisation to rapidly develop the Indian space program and advance nuclear power in India even after the first nuclear test explosion by India on 18 May 1974 at Pokhran.

EDUCATIONAL SECTOR

After the implementation of plans, efforts were made to spread education. Government decided to provide free and compulsory education to all children up to the age of 14. But this aim could not be achieved yet. In First Five Year Plan 7.9% of total plan outlay was allocated for education. In Second and Third Plan, the allocations were 5.8% and 6.9% of the total plan outlay. In Ninth Plan only 3.5% of the total outlay was allocated for education. To streamline the education, the Govt. implemented the recommendations of Kothari Commission under 'National Policy on Education' in 1968. The main recommendations were universal primary education. Introduction of new pattern of education, three language formula, introduction of regional language in higher education, development of agricultural and industry education and adult education.





AZRA MOHAMMED NADEEM - Grade IX

UNKNOWN FACTS ABOUT INDIA'S INDEPENDENCE



1. Our National Anthem:

The Indian National Anthem, drafted by Rabindranath Tagore was to pay homage to King George V! Well Yes! Astonishing, Right?

2. Nehru wasn't elected as our first Prime Minister:

Yes, it was not Nehru but Sardar Vallabhbhai Patel. Sardar Patel won the Prime Ministry elections fair and square but since Nehru didn't want to play second in command to anyone and also that Gandhi had a soft spot for Nehru, Sardar Patel was pulled down.

3. The Indian Flag Hoisting:

We all are of the nation that Indian flag was first hoisted on Aug 15th 1947. But that isn't true. Our National flag is said to be first hoisted on August 7, 1906 in Parsee Bagan Square (Green Park) in Calcutta.

4. The maker of the Indian Flag:

There have been various adaptations of our flag and it is often conceived that Mahatma Gandhi was the one who came up with the design of Indian flag but in reality, it was Pingali Venkavya, a freedom fighter who came up with the idea of our very flag!

5. India – The Peace Maker:

India has always been a peace-maker. Certainly, the history speaks of it! India has never invaded any country in her last 1,00,000 years of history.





ISHAAN SREERAJ - Grade IX

MY TRIP TO BHUTAN

I was inspired to travel by my father, he always loved travelling and I would join him. We decided to go to Bhutan this time, we had to take 3 flights to reach Bhutan since there wasn't a direct flight, after we reached the airport, we were allowed to take pictures from there.

After we left the airport, we went to a hotel where we had hot butter tea, it was delicious, then we took a rest for a while, and decided to go to the Temple. Since it was night, we thought we would start later. The next day we went to the king's palace which was fascinating, there were ancient paintings of the kings, there were beautiful flowers growing and so on.

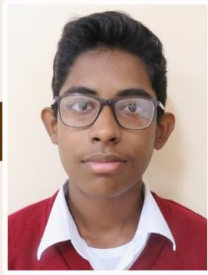


Later we went to a shop and drank hot chocolate which was my favorite. Then we went to a really long bridge, it was shaky. It was fun and terrifying at the same time.



Later we went to a place which was misty and cold. There were small shacks which were built and they looked alike. It was situated on a hill and it was a very nice view. The next day we went to the Buddha Temple and there were a lot of visitors who came there to pray to their devotees, there were statues of Krishna and other gods which were built in gold. Then we went to another temple which was so high, and had around 1000+ steps, it was so much fun climbing it. It was a memorable trip in my life and I hope to see many places like these in the Future.





ARVIN ROSH MATHEW - Grade IX

OUR GARDENING EXPERIENCE IN OMAN



Oman is a great country with its magnificent mountains, valleys and deserts. We enjoy life here as it is in India.

All the members in my family love gardening and so, we try to grow some plants here too. It gives us a great pleasure to see the flowers & vegetables growing in our garden, it provides us fresh and organic vegetables too.

Growing plants in this place is a challenge because of the hot weather and the sandy soil. In September, the Autumn season starts & the temperature slightly cools down and that's when we start to prepare the soil. Soil preparation is the most important thing in gardening. It is required to mix an equal proportion of soil, compost/cocopeat, cow dung and perlite, and fill it into pots and cans for planting.

Then, we need good seeds/saplings (that can be obtained from various gardening shops).

In October when the season starts, we start seeding. Some seeds need to be soaked in water overnight before planting them, for example, bitter gourd, string beans, coriander, etc. When the sapling has almost four leaves, when roots come out of the pot, we replant it to the prepared pot.

Regular application of organic fertilizers and organic pesticides will help the plant to grow healthy and stay protected from insects.

Last season, we harvested bitter gourd, potatoes, tomatoes, brinjal, coriander leaves, beetroots, and some other leafy vegetables. We have varieties of table roses in our small garden. This year we started to do more planting. It was great, as I got a chance to engage in all the important processes with my parents.

Here is an important tip on Gardening:

The salinity of the Oman soil is not good for plants, most of the plants require 6-7 pH for healthy growth. Mixing compost/coco peat will reduce the pH level- you can also use diluted vegetable vinegar too. For checking the pH, moisture of the soil you can use a pH meter. Here are a few results of the combined efforts of my parents and myself in gardening! ◆





ISHAAN SREERAJ - Grade IX

My Pencil Drawing



-Ishaan Sreeraj



AZRA MOHAMMED NADEEM - Grade IX

My Leisure-Time Creations



-Azra Mohammed Nadeem



LAKSHMI BALASUBRAMANIAN - Grade IX

My Craft-Work



-Lakshmi Balasubramanian