

THE TIMES OF INDIA

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TOP 4 NEWS

PEOPLE

Jack Ma officially retires as Alibaba's chairman

Jack Ma, the founder of Alibaba Group — the world's biggest e-commerce company — stepped down as chairman recently. His announcement comes at a time when the rapidly changing industry faces uncertainty amid a US-China trade war. However, Ma will stay on as a member of the Alibaba Partnership, a group of 36 people with the right to nominate a majority of the company's board of directors.

Ma, 55, founded Alibaba in 1999 to connect Chinese exporters to American retailers. After his resignation, China's richest man with a net worth of \$38.4 billion, according to 'Forbes', is set to spend more time on philanthropy and education.

BUZZ

PM Modi crosses 50mn followers on Twitter



Narendra Modi @narendramodi
Prime Minister of India
India | narendramodi.in | Born September 17 | Joined January 2009
2,227 Following 50M Followers

PM Narendra Modi, known for reaching out to masses through social media, continues to be the most followed Indian on Twitter with his followers crossing 50 million mark on the microblogging site. The PM now stands tall among the world leaders on Twitter with his handle @narendramodi a little behind that of US President Donald Trump, who has 61 million followers. He started using the platform in 2009 when he was the CM of Gujarat.

Former US President Barack Obama remains on the first spot with over 108 million accounts following him. No Indian politician is even close to PM Modi. Even the number of followers on the official Twitter handle of PM's Office has crossed 30 mn.

DISCOVERY

An iPhone-like stone buried with a woman over 2,100 yrs ago discovered



Archaeologists have found an extraordinary 'iPhone' like belt buckle from the grave of a 2137 year-old woman named Natasha (by archaeologists) from Aia Tei necropolis under the Sazan Sea. This place is a major man-made water reservoir close to the Sayani Shushenskaya Dam in Russia. Usually, it is submerged with up to 50ft of water, but water drains out temporarily during the summer. Archaeologists got their hands on the site, when water had drained out.

SPORTS

Hima Das named in World Championships team as relay runner

World junior champion Hima Das has been named as 4x100m relay runner in India's 25-member squad for the World Athletics Championships, to be held in Doha from September 27. Hima could not qualify for 400m but she has been named to run in the women's 4x100m relay and the mixed 4x100m relay races.

She holds the current national record in 400 metres with a timing of 50.79s that she clocked at the 2018 Asian Games in Jakarta, Indonesia.

Empowering with Responsibility

There has been a raging debate, like never before, whether we are preparing our students for the future. Previous generations never gave much thought to this. In the light of this development, is this qualm overrated and irrelevant? In an ever-changing world, faster now than ever, it is of prime importance to focus all educational endeavours toward preparing students for an unknown, impending tomorrow. Educational experiences provided to children must equip them with the necessary skills in addition to content knowledge so that they develop the adaptability to face challenges. It is very discouraging that a



Principal Guest Editor
Anupama Ramachandra, Principal, Delhi Public School Electronic City, Bangalore.

majority of us do not think beyond the conventional "well-paying" career options. This leads to students being misled towards professional and personal lives that they have no passion for. According to Ignacio Villanueva & Louis Nadel, "Prior research indicates that science, technology, engineering, and math (STEM) students tend to over calibrate their level of professional identity." As educational administrators and decision makers one should orient all teaching-learning activities towards nurturing 21st century skills like entrepreneurship, collabora-

tion, leading by influence and critical thinking. Another skill that is being grossly neglected due to invasion of technology in all realms of life is communication — oral and written. This leads to absence of humane emotions such as physical contact, love, and care for environment, empathy and response to community needs. It is just not enough to take pride in creating a generation that knows how to access and analyse information. The achievement is in sensitising them to use it to solve real life problems thus, practice empowerment with responsibility.

Institutions of learning are held ransom by expectations of the system and as a result, curiosity and imagination are at stake. Let not the advent of Artificial Intelligence distract us from hands-on learning and real life awareness that keeps education real, authentic, humane and most importantly, inclusive. Let the joy of teaching and learning continue!

The student edition of *The Times of India* you hold today is a special edition that has been exclusively edited by Anupama Ramachandra, Principal, Delhi Public School Electronic City, Bangalore, and her team, to bring you a feel of what a youth newspaper should be like. We invited them to visit our premises, to write and edit articles and opinions for you.

Indian Space Research Organisation (ISRO) has said that all possible efforts are being made to establish communication with Lander Vikram. "The lander is there as a single piece, not broken into pieces. It is in a tilted position," an ISRO official associated with the mission said. According to ISRO, instead of soft landing, the hard landing took place very

Why Chandrayaan-2's Vikram isn't getting signals

close to the scheduled touchdown of Chandrayaan-2. It will continue to try to establish contact with the lander till the period of 14 days gets over, the space agency added. According to experts, the obstacles on the

lunar surface may have been stopping the lander from receiving the signals. Going by the tilt of the lander, scientists are yet to make out if there is any major damage on it. While it is designed to take some amount of shock, for example, if the lander had a free-fall for some distance, it still is equipped to bear some amount of shock.

Doha roads turn blue



A picture shows freshly-painted blue roads. Qatar's Public Works Authority has painted the roads using a blue heat-reflecting pigment in an effort to cool down surface temperature. A 1mm-thick coating of a blue, "heat-reflecting pigment with hollow ceramic microspheres" has been applied on roads. By painting the roads, Doha joins Los Angeles, Mecca and Tokyo trying to cool traditional asphalt roads.

Cricket 'heat rules' call, courtesy climate change

A joint report by sports researchers and environmental academics has urged cricket authorities to introduce "heat rules" including postponing games in response to climate change. The review, by the British Association for Sustainable Sport has also called for extra care around youth players and for manufacturers to develop equipment that enhances air flow, as extreme heat becomes more common.

The researchers say they have combined climate science with heat physiology to show how batsmen and wicketkeepers are becoming increasingly susceptible to poorer performances due to the conditions. They argue "safety-related heat stress guidelines" are now needed, and that more games may need to be postponed.

VIEWPOINT

- The "Hit for Six" report details how cricket-playing countries such as India and Australia are already being severely impacted by extreme weather events such as droughts, heatwaves and storms.
- It notes youth matches in Australia have been disrupted due to heat, while dire water shortages have hit a tour of South Africa and flooding has delayed cricket in England.

Share your views at toiinlet175@gmail.com

STUDENT EDITION

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RECALLING WHAT SPARKED THEIR LOVE FOR LEARNING

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GET TIPS ON HOW TO BUST THE EXAM STRESS AND STAY IN CONTROL

ACTION-REACTION

In the Test series against South Africa, who will be better as the opener for India, K L Rahul or Rohit Sharma?

It is better to play Rohit Sharma instead of K L Rahul in India's Test series against South Africa. Time and again Rahul has proved his mettle in batting and his past records speak a lot about him. Rohit can play much better as he has repertoire of shots and he is more experienced than Rahul. He can also keep his wicket safe for a longer time which is crucial in Tests.

Mitanshu Sarkar, class IX, DPS E-city, Bengaluru
I think Rohit Sharma would be a better opener for Team India because he has more

experience. Also Rohit has great control over his bat and will be a boon for India. We cannot forget his exemplary performance in the 2019 World Cup as well. He will be lucky for India as an opener.

Sanchita Jindal, class X, DPS E-city, Bengaluru
There is no doubt that K L Rahul is an excellent player but his performance against West Indies hasn't been great. He has scored just 104 runs in 7 matches. On the other hand, Rohit's performance during the 2019 WC has been outstanding. His performance against South Africa has also been good in the past. So, Rohit is definitely a good option as an opener.
Saarthak Verma, class IX, DPS E-city, Bengaluru

CAPITAL IDEA

Countries have often had to construct capital cities out of nothing for numerous reasons...



WASHINGTON DC

After the USA got independence from Britain in 1783, it needed a capital city, one that would be federally governed, to ensure no one state could exert undue influence on the country. And so, in 1790, Congress passed the Residence Act, which approved the creation of the national capital on the Potomac River. The location was named after President George Washington.



CANBERRA

Australians in the late 19th century couldn't decide which city should be their seat of government Sydney or Melbourne. They decided on the classic trick of denying capital status to both cities, and constructed Canberra right in between the two. Australia also created a new state, Federal Capital Territory. While the seat of gov exists in Canberra, citizens couldn't be convinced to live there.



ISLAMABAD

Newly independent Pakistan had chosen Karachi as its capital in 1947. However, a decade later, President Ayub Khan chose to move the capital nearly 1,500 kilometres to the north, to the new city of Islamabad. Though reasons for the change weren't specified, it's believed that Ayub wanted to remain close to Rawalpindi, where the military headquarters are located.



BRASILIA

In 1960, Brazil started moving its capital from the congested Rio de Janeiro, which had played an overarching role in the country's development since Portuguese times, to Brasilia — a city it carved out in the Amazon forest. Brasilia was designed by renowned architect Oscar Niemeyer, and boasts of a large-scale modernist look. It was designated as a UNESCO World Heritage site in 1987.

Express YOURSELF

Did you go on a vacation with your family recently? Do you wish to put down your thoughts about something that's troubling you? Did a speech or talk inspire you to be a better human being? Are you a budding poet or painter? Whatever be your interest, use this space to speak up.



Taking pride in our history and culture

Is it truly necessary for children to know about their history and cultural heritage? It is essential to be aware of something that has happened decades ago? I feel it is extremely necessary for us to know how the shadows of the past reflect upon our future. As a child I always felt the burden of the enormous history of our country. After all I could never change the past. This perspective however changed after I visited the Ajanta and Ellora caves.

As I stepped into the caves, it gave me a hearty sense of relaxation as there was no artificiality inside the naturally weathered rocky caves. The bright paintings, beautifully painted with vibrant natural colours, untouched for centuries narrate a thousand tales. The flawless carvings of the Buddhist sculptures, with not a single tiny stone added, just one huge jib rock cut into an elegant structure is what gave me the definition for true art. Being in such a place is what I call true bliss. The great artists were truly people possessing modesty and philanthropy.

The visit not only made me real-

ize the eminence of Indian art but also the nobility of the artists who created it. This experience is deeply engraved into my memory. With each memory I have composed a rhythm of many tours, incidents, and situations. But one might not feel the same on just hearing about this because it has to be experienced and felt. Phonetic pleasure would not be sufficient. Until the 17th century, history was not given importance. Today too, history needs to be revived. Visiting just a few places would be more than enough to inculcate a sense of pride for the history and heritage of the country.

Manavijay Sharma, class X, DPS E-City, Bengaluru



Differences that bind

How different are you and I? We may come from different backgrounds, belong to different religions, have opposite tastes and be guided by different ideals. You may live at a different time zone while I live under the influence of a different culture.

We wake up to the same Sun, and sleep under the same stars. We both forever remain indebted to the grace of our mother earth and are both emotional. Both our hearts have turned crimson in embarrassment, we have both shed tears, joy has bubbled up in both of us, fears that have restrained both of us and the hope that was instilled into us, we both cling on to.

We are bound by different pasts and varying actions, but is it not that both of us wish for a bright future ahead of us? Do we not both wish for a rainbow after a storm?

We possess both, deplorable selfishness and admirable visions; then why is it that we fight? Are our egos so prominent in de-

clining how we go about the world that it is truly impossible for us to crusade the same virtuous cause? Irrespective of where someone is from or what one wears and possesses, there is nobody who hasn't been born or couldn't die. Let this thought not estrange us. Join hands with me, on this journey to revolutionize the world.

Sunishi Sudhir, class X, DPS E-City, Bengaluru



Maths: look into the past for the future

Ah, maths! La lingua pura. The pure language. Maths is one subject which has many uses. From teachers to harriers, all need to pay homage to mathematics.

In future, mathematics will evolve into a far more sophisticated and diverse subject, and teaching methods will also differ. We already are

into audio-visual technologies. Our ancestors discovered many simple but effective ways to solve even tough mathematical problems in a minute, using vedic mathematics. It has quietly resurfaced, but is often underestimated.

There is a possibility that the future may do away with

repetitive, rote-learning maths. Vedic Mathematics can be that fun, simple alternative. But wait! Let me clarify. I am not asking for a complete overhaul in favour of our ancestors' numerological system. We need an amalgamation of the past and the future, taking only the bits that are relevant.

S Anubelvin, class VII, DPS E-City, Bengaluru

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Embracing the magic within you

Ever imagined what life would be like with magic around us? The answer would be, "Yes, a whole lot easier." For magic has filled the minds of men with mystery and marvel. Privy to a handful of practitioners of arcane sociology magic continues to fascinate humanity.

The lure of the logic-defying element lies in the science of evolution. The human brain has evolved to comprehend the world in order to survive. We provide a rationale for everything, when we cannot, it's an enigma. An inanimate card, disappearing out of sight, challenges us to lean towards the preternatural.

Magic is an escape from the painful reality of life. The wildly popular Harry Potter series gave hope that if a boy's mundane life in a torturous household could be invigorated by magic, why couldn't wondrous things happen to us? Whether magic exists is un-

certain, but one thing is certain: magic is found within each one of us. We have thrived by utilizing our intellect, strength and imagination. We don't have to be witches and warlocks for creating the perfect potion for success. The most, anti-logic mystery is that we bounce back to life, despite any bitter experience. So embrace the magic within you!

Samyuktha Shriram, class X, DPS E-City, Bengaluru



Holidays call for pickle-making!

Yes, you read right! Making pickles can be one of the most fun and creative ways to spend a long vacation.

We were at my grandparents' house in Chennai, when my grandma had a brainwave. "Let's make Avakkal!" And so we gathered the ingredients for one of Andhra's scrumptious pickles. First, we had to dry all the ingredients on the terrace. They were later powdered at the mill. The powdered ingredients were treated again with plenty of sunlight.

After that, we placed mangoes from our very own mango tree. So you see, our recipe is not only delicious but organic too! Plucking mangoes was the most exciting part. The smell of fresh raw mangoes wafting in the air was so tempting! Next morning my grandpa chopped up the mangoes. All the ingredients were mixed in large containers.

The jars were put out on the terrace for ten days to catch the golden rays of the sun. While we took turns to stir this aromatic

concoction, my brother ran around shooting away crows! Pickle making is indeed a family activity.

I had no inkling that this ancient culinary art was so tedious, but it was a wonderful experience. Opening the pickle jar and digging into it has always been the easiest thing to do, but now pickle eating has a whole new meaning for me, especially since I have been a part of its ritualistic preparation.

Mirinalini Sankar, class VIII, DPS E-City, Bengaluru



Leaders can be made too!

Leaders are not made, they are born.' This quote may be partially incorrect.

On one side, pro-aristocratic thinkers assumed that leadership came from inherited traits. Those who did not possess them were not considered to be liable for any post. This was the main reason why kings were succeeded by their children, who were believed to carry on their parent's qualities, the king's capabilities. They did not elicit someone else in the fear of choosing an incapable person devoid of such leadership traits.

According to the popular perceptions, the king's children would possess the same qualities as that of their parents and so they decided on a hierarchical system of inheritance of the throne. However, history did see successors who were completely different from their predecessors and failed to secure their empires.

On the other hand, recent studies reveal that leadership is not just about innate talents, it is about acquired skills as well and the ability to

utilise them at the correct time, depending on the circumstances, so having abilities such as assertiveness does not make a person a leader. According to the Forsyth (2009), leadership also depends on hard work and careful observation and so leadership can emerge from nature (talents) or nurture (Acquired skills). Moreover, leadership is about how one can control others, it is about how one can help and co-operate with others. Warren Erhard, Michael Jensen, Steve Jaffron and Kari Granger recently defined a true leader as the one who tries to find and resolve the underlying concerns of those who are affected by his leadership. Thus, a leader may be born, but a true leader is one who possesses all these qualities and is capable of utilising them under relevant circumstances.

So let us strive and focus with an optimistic mind and try making ourselves a good leader!

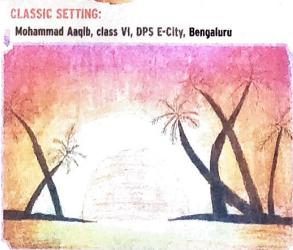
Sheethal Sudher, class X, Delhi Public School, Electronic City, Bengaluru



Painters' Gallery



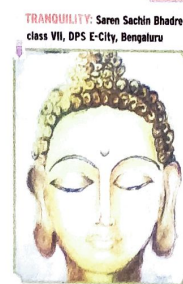
IN AWE OF THE MIGHTY: Mihail Maheshwari, class VI, DPS E-City, Bengaluru



CLASSIC SETTING: Mohammad Aaqib, class VI, DPS E-City, Bengaluru



MOON BEAM: Ananyasi P, class VII, DPS E-City, Bengaluru



TRANQUILITY: Saren Sachin Bhadre, class VII, DPS E-City, Bengaluru



BY THE LAKE: Ojavei Singh, class VII, DPS E-City, Bengaluru

SHE SUFFERS IN SILENCE



She suffers all day long And with no one asking what's wrong. She works all day long And nothing pays her off. Her tears are flowing from here And still no one listens to her prayers. It is not only her but every girl Crying each day yet in silence... It is not freedom for her Just killing her in the womb. No, not freedom for her Just stopping her education. No, it is not freedom for her Thinking it's better to marry her off with some stranger When she is just fifteen. No, it is not freedom for her That quitting jobs suits her. Saved today and raped tomorrow Encouraged today and forced tomorrow Beautiful today and married off tomorrow Freedom today and restricted tomorrow. I can see her opening her wings Can see her flying like boys Can see her smiling But all that happens just in my dreams While she is still crying across the streams.

Bhrikanthini R Menon, class X, DPS E-City, Bengaluru

TEACHER

Teacher oh teacher! How wonderful you are! To me you shine like a star. From your hard work and your smile, Step by step I rise up high. You make your students day oh so bright Your words of wisdom are always right. Teacher oh teacher, you are my guiding light In the wild and tempestuous night.

Mihika Sarkar, class VII, DPS E-City, Bengaluru

DEAR LIGHTHOUSE

Dear Lighthouse, You shine so bright, You prevent ships from getting into a fright. Dear Lighthouse, You give so much light, It feels like day in the middle of night. Dear Lighthouse, You stand with so much might, In your presence traffic cannot be tight. You eliminate any fright, No ship can escape your sight.

Animashu Sankar, class VI, DPS E-City, Bengaluru

THE MENTORS

A good teacher not just instils the love of learning but also essentially ignites the thirst for knowledge in young minds. And behind every good teacher is their experience as a student, their invaluable learning and what inspired them to teach. Teachers recall what sparked the love of teaching in them and their journey as an educator.



Make time for relationships

When I started my career in the primary sector, I wasn't prepared for the multitude of things on my plate. I didn't have a handle on classroom management, and I left each day feeling exhausted and defeated. I spent my time learning the new curriculum, handling students, classroom management etc. I knew this was important but also felt something was missing. Yes, the connect with my students was missing. In kindergarten there were two teachers but in primary it was me and only me as the class teacher. I decided I had to connect with my little ones. I started observing other teachers and realised that the highest priority for these teachers was forming relationships with students and everything else fell into place after that. It was really helpful to spend time with the students, knowing about their family, their interests,

things they like to do outside school and the subject they like the most. Sometimes as a teacher I got to know more about the child than their parents did. It really felt special and the bond we developed was priceless. I started changing my priorities to make my relationships with students my main focus. Making this shift changed me as a teacher, and it changed the vibe in my classroom. I began to feel happier at school and I could see that my students were joyful too. Building relationships should be the first thing in a teacher's plan. We must prioritize it at the beginning of the year and continue it with each day. Just as one allocates time towards teaching procedures, an equal amount of time should go into getting to know students.

B Archana, teacher, DPS E-City, Bengaluru



For the love of TEACHING

I love dogs... I make no bones about it

If having a soul means being able to feel love and loyalty and gratitude, then animals are better off than a lot of humans. - James Herriot

I was expecting a friend one Sunday afternoon. As I opened the door she enquired, 'Hey, is it tied?' Confused thinking that she is referring to my hair and wondering how that matters, I replied, 'Yeah! In a ponytail!' She looked surprised and retorted, 'No, silly! I am asking if your dog Lily is tied?' Oh! So, that's what she wanted to know. To me Lily is a member of my family, another woman like me! Therefore a "she". None of us addressed her as "it". So, that is the difference between animal lovers and others. You may love animals but may not want them as pets. Having pets at home and taking care of them is a task that requires genuine and lasting commitment - puppies are not Christmas gifts! People keep all kinds of animals as pets. From rabbits, tortoises and birds to monkeys, snakes, cats and the most popular - dogs. I love dogs started in my childhood. As an 8-year-old I had picked up a puppy from the street and brought it home. My father who was not a dog lover refused to let him in. I went on a strike and sat with the

Having pets at home and taking care of them is a task that requires genuine and lasting commitment - puppies are not Christmas gifts!



puppy outside our home for hours. My dad gave in and then there was no looking back. Many moons have passed since and I have always had dogs as pets. I have busted a lot of myths over the years. For example, 'You have children in the house, pets are unhygienic' or 'a dog's mouth is full of germs... how can you let your baby so close to it?'. These myths are not true... my children grew up with a pet and are sensitive adults today. It has been proven that dogs can cure depression in humans. The companionship of a dog has helped a lot of senior citizens to overcome loneliness. Taking care of pets gives them a purpose to live and remain active. Children love pets and thus learn to be compassionate to all living beings. Pet animals add joy and happiness to our lives and homes. Little wonder that the anagram of DOG is GOD! The Father of our Nation Mahatma Gandhi had a pet goat in the ashram where he had lived. There are stories of pets saving the lives of family members they live with. Thus, adopting a pet gives one a sense of security as well. However, keeping a pet at home should not be a cause of nuisance and botheration for others. Pets are like your children; just as you want your children to be disciplined and well behaved you should make sure that your pet also does not harm anybody.

Vandana Mamerikar, teacher, DPS E-City, Bengaluru

Let Classical, Neo-Classical or Contemporary, Western or Folk, dance is all about exploring oneself from within while giving an aesthetic shape to our imagination. The mental and emotional benefits of pursuing any dance form are plentiful. Apart from being mindful of one's body anatomy, posture, hand and eye coordination, facial expressions, the dancer also is able to connect to the society, appreciate its culture or resist its unethical norms, if any, through his/her dance.

Dance for life

Dance is therapeutic too. It is a great way to release the 'feel good' endorphins that makes one happy. Such are the benefits of dance that many schools have made it compulsory for students of all grades to attend dance/ movement sessions regularly.

CAREER IN DANCE

Carving a career in this sphere is an exciting but an arduous task. It involves extensive practice and prolonged training in order to acquire the necessary skills, knowledge, and the ability to interpret and integrate music, dance and drama at a professional level. One can be a performer, teacher, choreographer, dance/movement therapist, art critic or an art manager. Performing artists and the allied career enthusiasts can find employment in schools, colleges, dance academies, television channels, print media and even in the corporate sector. Apart from the ability to use imagination to create an enthralling story all these career options need determination, perseverance and an ability to meet strict deadlines. It is essential to spare time every day for practice, to hone and polish one's skills. Remember, every expert was once a beginner.

Anindita Choudhury, dance teacher, DPS E-City, Bengaluru



Inculcate a sense of responsibility

"By education, I mean an all-round drawing of the best in the child and man in body, mind and spirit." - Mahatma Gandhi

Academic excellence and achievements alone cannot lead a person to become responsible. One must nurture and inculcate a strong moral character. The sense of responsibility is a deep-rooted aspect in an individual's personality. It is a result of cultivating good habits, values and attitude right from childhood. Character is the mirror of one's qualities such as sincerity, courage, obedience, tolerance, confidence, etc. Well, are these really very difficult to achieve? Have we become so far removed in this cut throat competitive world that we have no time to spare for moral etiquette? Is it really rational that we should aim only for professional excellence and not give an iota of

thought to our behaviour towards others? Focusing only on improving grades and ultimately a grand career, with the care for others, may lead to unscrupulous behaviour, indecency and lack of manners. It is sad that the percentage of such people has increased in our society. Each one wants to earn money at any cost, and resorts to corrupt practices, cheating and deceiving only for personal gains and benefits. My friends, there is still time before it is too late to save the world from extreme intolerance. Let us change our attitude and mindset. Let us wake up and make this world a much better place to live in with a strong sense of responsibility towards all and nurture a positive personality to face the challenges of life and society.

Debashree Bose, teacher, DPS E-City, Bengaluru



"Toutes les choses sont difficiles avant d'être faciles" All things are difficult before they are easy

As a teacher who has been teaching a foreign language for the last 5 years, I can safely state with a hint of pride that I am the most popular teacher at the 5th graders. I love the excited chatter of the students as I approach the class and see the hopeful gleam in their eyes ready and eager to learn a new language!

A foreign language has a charisma and aura of its own in any country. French and German as foreign languages have been popular for over 4 decades now in India. Spanish, Japanese and Chinese are slowly getting into the academic mainstream in many schools.

Learning a foreign language explores your hidden talents, which helps to build and develop your personality. It opens the doors to various opportunities and gives you an insight into internationalism in education. Various cultural exchange programs give

BONJOUR!

you exposure to the people, customs and traditions and helps you to become a global citizen.

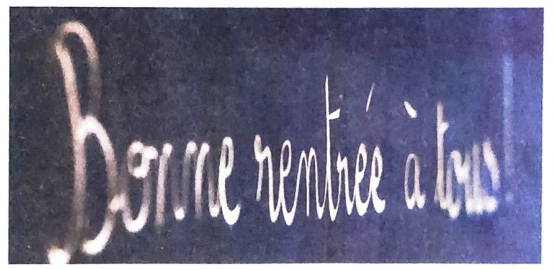
I am sure many of you would have wondered what it would be like for you to learn a foreign language like French or German. It is one of the easiest foreign languages that one can learn if the rules of grammar and pronunciation are followed correctly. A lot of information is

now available on the internet and various books can be referred to, to learn the language.

More than 200 million people speak French all over the world. French is the second most widely learned foreign language after English, and the ninth most widely spoken language in the world. French is also the only language, alongside English, that is taught in every country in

the world. To motivate and encourage students towards learning the language, schools have now started conducting 'The International French Olympiad' which is now a popular exam, along with other Olympiad exams. I strongly believe that learning a foreign language would open up a world of possibilities. So, go ahead, take the plunge and learn a foreign language that fascinates you!

Kavita Gupta, teacher, DPS E-City, Bengaluru



A lesson in teaching

In spite of my memory being a bad servant, there are a few incidents that are etched very clearly in my mind. This one in particular dates back to 1993 when I was in class IV. I had got an assignment to draw the human digestive system. It had to cover an entire chart paper. As a teacher today, I can say with confidence that this assignment is rather most difficult for an 8 year old. After the class, most of us discussed ways to get our elder siblings, parents, etc to do the assignment for us. I settled for my father. My mother had once helped me draw India's map. With the way she had merged Pakistan, Nepal and Bangladesh, inside India's border, I knew better than to seek her help this time. When Bapi returned from office, I told him he had to do the drawing for me. With a very sad look and a lot of self-pity he confessed that throughout his education he had never been good



at drawing, or at any form of art whatsoever. But he assured me that he would do his best to help me. I did not want to merge other organs with the digestive system, so I did not insist that he draw either way. Instead he taught me the concept of graphics in art in the simplest way possible. He asked me to work out the ration of the diagram in the book to that of the chart paper. He taught me to mark points and to multiply distances according to the ratio. When I had finished, my teacher and my friends would not believe that I had made it myself. I was highly disappointed after the hours of effort I had put in, standing on a stool and leaning over the dining table to complete the drawing. Years rolled by. My drawing improved. I never had to rely on anyone for my art work. Never did Bapi have to feel self-pity again. By the time I graduated I had the honour of being the best in the class and in my family - it was glorious

for me. August 2006, I had finished my BSE final exams. My dad's elder sister, her son Basu da and daughter-in-law came calling after years. Basu da asked if Bapi still draws. I pointed out that dad was never good at drawing. But I was in for a surprise when he pointed out that Bapi was in fact the best artist in school, back in the early 70s and used to make charcoal drawings. For years, his drawings were framed and preserved. When Bapi returned that evening, I was already in tears. I remember when Basu-da told him our discussion. Bapi smiled wretchedly like a child caught while stealing something and I was still crying shamefully. It is a pity that I never got to see any of his drawings ever.

Sanghamitra Bose, teacher, DPS E-City, Bengaluru

It's not just a place where you get to learn Einstein's Theory of Relativity. It's also a place where you can think beyond the classroom. Hence we say, **SCHOOL IS COOL!**

SCHOOL IS COOL

Fostering dynamic, disciplined and conscientious citizens of tomorrow

SCHOOL BUZZ



Getting cryptic

Mihith Aaryan Sudhir and S Anbu Selvan (one word or two) won the 3rd prize in Cryptics 2018 - Computer Technology Challenge which was conducted at Vedehi School of Excellence, Bengaluru.



Automating music

Anay Datta, A Niranjhan and Tejas N Sai of Team Electrostat participated in the automations category at CHROME, an inter-school competition organised by Chrysalis High. The team built a piano playing robotic arm which won them the first prize and an award of Rs 6000.



Getting patriotic

The boys and girls teams of the school participated in the district level patriotic song competition 'Gheetagayana', conducted by Bharat Scouts and Guides Karnataka and they secured the first and second place respectively.



Follow the Mahatma

The dance team bagged the 'Judges Appreciation Award' for the theme 'Mohan Se Mahatma' at the Inter DPS Dance Competition - 'Nriyanjali' conducted by DPS Society at DPS Nacharam, Hyderabad.



Quiz wizards

S Anbuselvan and Namit Kumar of class VII won the 3rd place in middle school level at an inter-school quiz conducted by Karnataka Quiz Association.



No child hungry

Twenty-six students of the school, in association with a crowdfunding platform ventured into online campaigns to support the 'Akshayapatra' initiative. The students helped provide mid-day meals to children in government schools. The students raised nearly Rs 6,00,000, which will help nourish and educate 1500 deserving children for a whole year. Kudos!

"The purpose of education, is to make good human beings with skill and expertise...Enlightened human beings can be created by teachers". - A.P.J.ABUL KALAM

The recurrent and escalating need for holistic education paved the way for the genesis of Delhi Public School, Electronic City in 2014 led by the visionary chairman K Rahman Khan. Set amidst sylvan surroundings, the school provides a perfect environment, conducive for wholesome teaching-learning experiences. DPS Electronic City established by Delhi Public School Society, New Delhi and KK Educational and Charitable Trust as partners, caters to the needs of the students for an enriching, nurturing and genial schooling atmosphere.

DPS E-City resolutely believes in not just providing quality education but in inculcating the right set of principles, values in children and fortifying them to face the multitude challenges of life. This is achieved with tenacious emphasis on balancing academics with activities to nurture cultural, emotional, physical and mental development. Innovative practices such as technology incorpo-

rated lessons, activity-based learning, personal student counselling sessions are amalgamated for a multipronged approach to learning. To broaden their horizons, numerous hobby classes are conducted to provide various enriching experiences to students to pursue their interests and hone skills.

At DPS Electronic City value education is not just another set of lessons, it is an integral learning experience but is essentially the most critical part in nurturing empathetic students who can respond to the needs and challenges of the society they live in. Our school motto 'Service Before Self' is a constant reminder that the well-being and safety of others always come prior to our own comfort. Our school is proud to partner with Rotary Interact Club to acquaint students with the essence of team spirit and do their bit for society. Activities such as crowd funding programmes, the 'run for better school' marathon, 'Fisful to smooch full' and many such initiatives have been organised not just to help raise funds for various causes but essentially sensitise

children towards their greater role in society.

To give the requisite impetus to sports and ensure sporting talent is encouraged in every child, the school has state-of-the-art sports facilities, indoor temperature regulated swimming pool and numerous sporting events which are organised throughout the academic year. From tennis to badminton, karate to football, DPS Electronic City is proud of its sports achievers who have made their mark in state, national and international tournaments.

In our effort to provide a platform for excellence in education, the staff members are deputed to training sessions, online workshops and assessment programmes every year at the national and international levels. Our teachers have been recipients of the prestigious Fulbright award, CENTA awards, IIMH awards, the Chanakya award by the Public Relation Council of India (PRCI) to name a few. The Silver Zone Performance Excellence Award, British Council International School Award, the



Global Innovative Schools Award GISA 2018 are some of the awards conferred on the school for exemplary performance in academics, technology integrated learning, cultural inclusion and creating social awareness among its students. In an attempt to create global citizens, the DPS E-City collaborates with schools around the world. International teacher train-

ing programmes, international teacher and student assessments are an essential part of the school's curriculum. International visits such as to NASA, USA or Thailand are means to reconnoitre beyond the realms of the curriculum and give the pupils an endeavour in fostering dynamic, disciplined and conscientious citizens of tomorrow.

The year 2019 has been very special for the DPS E-City family as the first batch of class X students achieved 100% results, with all of them securing first class. DPS E-City family is proud of its achievers and looks forward to many more accolades and will continue its inexhaustible endeavour in fostering dynamic, disciplined and conscientious citizens of tomorrow.

Fond memories from my second home

An hour before the first board paper, my classmates and I were waiting in the school bus parked in front of our exam centre. Our teacher walked up and down, checking our stationery, and supplying us with whatever we lacked. At this thoughtful and loving gesture, I couldn't help but recollect my two-year journey at my second home - Delhi Public School, E-City.



The oldest students in my batch had been in the school for four years. I joined them midway when we were in ninth. From the start, the school was welcoming, and before my first day ended, I was one of them.

The school always encourages holistic development along with studies. Whether it be creating educational content in collaboration with Lets-Tag-On, collecting funds for cataract surgeries through Fuel-a-

Dream, or designing products with the help of an NGO, Reap Benefit, and friends from nearby government schools, DPS E-City never failed to provide us with ample volunteering opportunities. Expeditions and fun

weren't left behind. While in ninth grade, the school took us on a trip to Hampi and Anegundi. The next year, we went for a trek up Skandagiri, and to an adventure camp at Kolar. The first board paper was the start of the end of our journey at DPS E-City. And what an end it was with all of us passing with first division! I had entered school with anxiety in my mind, I left with fond memories in my heart. Adirja Roy Chowdhury, alumni of 2019 batch

Up, close and personal with the mentor

On the occasion of Teacher's Day, students struck up a conversation with their principal to find out what keeps her going.



Students: What inspired you to take up teaching?
Principal: I must confess that I am a teacher by chance rather than by choice. A leave vacancy position was back in 1990 introduced me to the joy of being with children. From then on, there hasn't been any looking back.

What are the challenges you face as a Principal?
The challenges are twofold. In a highly digital, materialistic world that we are turning into, it's quite a task to nurture humane values in children and encourage teachers to adapt technology for effective learning.

What bothers you the most about the current generation?
Although it is very heartening to see how focused and multifaceted the current generation is, it also concerns me to see additive, inappropriate use of technology and deterioration in quality of human connections.

What do you miss the most about the Principal?
I was like any other student and had my share of fun while as a student. I never got into any serious trouble for my behaviour. Some things are best kept a secret!

Administration is a very demanding and takes up a lot of time. I greatly miss spending more time with students in the classroom and pursue interests like painting, travelling, reading and writing.

My science teacher in school, Mrs. Nagamani Rao greatly influenced me with her demeanour and quiet way of touching students' lives with her warmth and concern.

What is your message for students?
Make it a habit to reflect upon your thoughts and actions. You will be a better person each day and no one can stop you from reaching your goals. Respect your fellow human beings, nature and rules.

What is your vision for the school?
That the students of DPS Electronic City should become positive agents of change and contribute towards a peaceful and productive world.

What gives you happiness and a sense of fulfillment being a Principal?
The school's growth in quantity and quality is encouraging and joy for me is in the smiles of students & staff.

What is your vision for the school?
That the students of DPS Electronic City should become positive agents of change and contribute towards a peaceful and productive world.

Please tell us about the teacher who shaped your childhood majorly.

Himanshi Chhabra and Manasi Sharma of class X, DPS E-City, Bengaluru

A BIRD'S EYE-VIEW OF WHAT GOES INTO MAKING A NEWSPAPER



The student editorial team comprising Sunidhi Sudhir, Manasvi Sharma, Himanshi Chhabra, Samyuktha Shriram, Sanchita Jindal and Hemant B G of class X, Shreya R D, Ishita Singh, Sarthak Verma, Mitanshu Sarkar of class IX, Yuktta Purohit, Advait Nair and Mrinalini Sarkar of class VIII, and Anubuselva S of class VII, along with their principal Anupama Ramachandra and teachers Sandhya Sanakar, Deboshree Bose, Suchandra Sarkar and Paromita Roy.

A happy mix of activities, social service and academics

The first thing I like about my school is that every child is given a chance to express his/her talent through various cultural events organised by the school. Secondly the school has tied up with NGOs and other organisations, which gives students the opportunity to participate in social service. Such meaningful engagements have a lasting impression! The third most favourite thing about my school is that it gives our regular activities as much importance as it does to academics, and they are never neglected under any circumstances. However, the school maintains a 'no junk food zone'. This not only curbs the growing addiction to candies among the children but also helps keep the school premises clean by avoiding the litter of chocolate wrap-

pers. Last but not the least, all the teachers are passionate about teaching. They are not only friendly and approachable, but are also interactive and encourage students to question what is being taught. Listed above are a few of the many things in my school which allows students to fulfill their potential. I consider myself fortunate to be a student of this school and enjoy the many comforts that it provides. No institution is completely perfect, and my school is no exception. Hence it would be quite unfair to only point out its pros and neglect the cons. The address for consideration I believe are the same in majority of schools in India. It is well known that marks are of

utmost importance in the Indian education system, so academic pressure is always high. The academic curriculum being so vast it is stressful to cope with the huge syllabus. As a result, sometimes our co-curricular periods get converted to regular classes in a desperate attempt to complete the portions. In addition, in the tussle between academics and sports, we often end up having to sacrifice our games periods. Exams are often stretched over two weeks in school! And that makes it never ending experience. Perhaps what I dislike most is that the lunch break isn't long enough to relax and enjoy your lunch with friends and have long conversations!

In school, I need to put in a lot of effort to concentrate in French class, considering the fact that the person teaching me is my mom. No doubt, she's been my teacher since childhood, but more like a parent-teacher. I usually get some interesting queries from my friends like 'Does your mom teach you French at home too?'

or 'Could your mom grant us a free period tomorrow?' I would like to state with a hint of pride that I've always studied French all on my own. Credit should be given to my mom, who has never given me any special privileges. To all my classmates and readers who think it is cool being a teacher's son, let me tell you it isn't as rosy as you think it is! This article is dedicated to all students whose mother is a teacher. We are all privileged bunnies and proud to be our mother's child! Ashwin Jayendra, class X, DPS E-City, Bengaluru

Letters to this column should be addressed to: Letters to Editor, The Times of India, 6/11, 5th Floor, 107 Feet Road, Bangalore - 1

WIZARD'S CORNER

All work and no play makes Jack a dull boy. So the best way to pull yourself up is by indulging in mind teasers and laughter riots. Need a chill pill? Get into the WIZARD'S CORNER!

S.F. AND COMIC KIDS

Spot six differences between these panels.



GO FIGURE

Place the four numbers in the first, third, fifth, and seventh boxes and whichever operators you want to use in the second, fourth, and sixth boxes in the correct order to get the answer. Use the numbers only once.

The operators: \div , \times , $+$, $-$

EASY = 8

MEDIUM = 1

HARD = 8

SOLUTIONS: Easy 4 - 5 + 3 + 6 = 8
 Medium 3 x 2 - 9 + 4 = 1
 Hard 5 - 4 x 4 + 4 = 8

WORD SLEUTH

GROUP

V V S P N K I F C A X V Y S G
 Q R E O L N J G H E C D T A N
 X S O C V T O N R P N Y L I
 J H N I I A F I D B Y N T X T
 V T Y O V T I N S U R A N C E
 R P O P S A C R M S K M E A E
 I G E D A S H A E B U I D P M
 Z X W U T R E H E R T R C I T O
 Q O N L J I E L B P S S A H
 G F D Y R O E H T C A Y Y I X
 W T X E T I A R T R O P H N D

Friday's unlisted clue: GIRAFFE
 Find the listed words in the diagram. They run in all directions - forward, backward, up, down and diagonally.
 Saturday's unlisted clue hint: LEADER OF A GROUP

Behavior Hysteria Lessons Text
 Discussion Identity Meeting Theory
 Dynamics Insurance Portrait Therapy
 Home Learning Practice

GARFIELD



SUDOKU

5			2			6	
	8	3	1		2		
7		4					9
	3			1			
9	2				4		7
			5		9		
3				7			1
	7		9	8	3		
1			3				2

LAUGH OUT LOUD

Q. Why is an empty purse always the same?
 A. It has no change.
 Guest to the Waiter: Can you please bring me what the lady at the next table is having?
 Waiter: Sorry, sir, but I'm pretty sure that she wants to eat it herself.
 Himanshi Chhabra, class X, DPS E-City, Bengaluru

MIND TEASERS

MATHS QUIZ

Hemant B G, class X, DPS E-City, B'Uru

Q.1) If + means \div , x means \cdot , - means x and \div means + then $38 \div 19 \cdot 16 \times 17 \div 3 = ?$
 A. 16 B. 19 C. 18 D. 12

Q.2) CD, HI, MN, ?
 A. OS B. RS C. OP D. PO

Q.3) A large cube is painted on all six faces and then cut into a certain number of smaller but identical cubes. It was found that among all the smaller cubes, there were eight cubes which had no face painted at all. How many smaller cubes were cut from the original cube totally?
 A. 27 B. 48 C. 64 D. 125

Q.4) A school committee consists of 2 teachers and 4 students. The number of committees that can be formed with 5 teachers and 10 students is
 A. 1075 B. 8 C. 2100 D. 50

Q.5) Find the missing number
 A 28 20 7,
 b 84 35 12,
 c 45 ? 9
 A. 15 B. 10 C. 25 D. 30

Q.6) A cake is cut into 12 equal pieces. There are 7 children and each child eats $1/2$ of a piece. What fraction of the cake is eaten?
 A. $7/24$ B. $7/28$ C. $14/47$ D. $8/24$

ANSWERS
 (1) C (2) B (3) C (4) C (5) C (6) A 7/24

INDIA SHINING

Hazarduari Palace

Built in Murshidabad, the last capital of independent Bengal, it was constructed in the 19th century during the reign of Nawab Nizam Humayun Jah. It was designed by Duncan Macleod. An interesting fact is that out of thousand doors, only 100 of them were real, and rest of them were fake.

Soham Ghose, class VIII, DPS E-City, Bengaluru

LITTLE-KNOWN LEGACIES THAT HAVE WITHSTOOD THE RAVAGES OF TIME

THEY SAID IT DREAMS

Well done is better than well said - Benjamin Franklin
 You have to dream, before your dreams come true. - Abdal Kalam

compiled by Advait Nair, class VIII, DPS E-City, Bengaluru

FAMILY CIRCUS

I GET TO SIT IN DADDY'S PLACE TOMORROW NIGHT.

10/24
 '...cause GIRLS can be the man of the family, too! Can't they, Mommy?'

JUMBLED WORDS
 1) cyecurrn
 A: recycle B: currency C: running D: recurring
 2) eqalner
 A: general, B: learning, C: angle D: leaning

ANSWERS
 1) B: currency 2) C: general

Quiz time

MIXED BAG

Mitanshu Sarkar, class IX, DPS E-City, Bengaluru

Q.1) What's the colour of a mirror?
 A. Green B. Red C. Yellow D. Blue

Q.2) Who was known as the 'Whip of the God'?
 A. Taimur B. Chengiz Khan C. Balban D. Alauddin Khalji

Q.3) Akbar borrowed the concept of Mansabdari system from which country?
 A. Mongolia B. Turkey C. China D. Egypt

Q.4) What is Xeriscaping?
 A. Landscaping related to save water B. Landscaping using bonsai plants C. Landscaping using organic manure D. All of these

Q.5) A temperature at which both the Fahrenheit and the centigrade scales have the same value?
 A. -40 degree B. -30 C. -20 D. -10

Q.6) At which place did Mahatma Gandhi first start his Satyagraha in India?
 A. Tumkur B. Kheda C. Satara D. Champaran

ANSWERS
 1. A) Green, 2. B) Chengiz Khan, 3. A) Mongolia, 4. A) Landscaping related to save water, 5. A) -40 degree, 6. D) Champaran, Bihar

COMMON GRAMMATICAL MISTAKES

1. HOARD / HORDE

THE RULES:
 Hoard: (verb) collect something over time and store it away
 Horde: (noun) a large group of people

HOW NOT TO DO IT:
 The pirates attacked the ship to hold up a horde of treasure.
 A hoard of reporters gathered at the press conference.

HOW TO DO IT PROPERLY:
 The fugitive returned back to the village to find his hoard of treasure.
 A horde of fans gathered at the stadium to get a glance of their team.

IDIOM OF THE DAY

Use one's noodle:
 Meaning- Use your brain or common sense
 Solving the riddle was not that difficult, you could have just used your noodle.

IDENTIFY THE PERSONALITY

She is an Indian scientist and the first woman to head a missile project in India, earning the title of 'Missile Lady of India'.
 Answer: Tessy Thomas

CURRICULUM EXERCISES

0.1) Who discovered Proton?
 0.2) Who is considered the father of genetics?
 0.3) Who proposed the theory of relativity?
 0.4) Who is the author of "The origin of species"?
 0.5) Who discovered Polonium?
 0.6) Identify the scientist.

ANSWER: (1) Rutherford (2) Gregor Mendel (3) Albert Einstein (4) Charles Darwin (5) Marie Curie (6) Thomas Edison

KNOWLEDGE BANK

The Tundra

At the extreme north and south regions of the planet, the trees give way to tundra. Frigid and harsh, the tundra is among the least diverse of the Earth's biomes. It is characterized by sturdy mosses, lichens, and low growing flowers and grasses that can survive through a short growing season, the perpetual night of the polar winter, and temperatures that average -30°F in the coldest months. Saarthak Verma, class IX, DPS E-City, B'Uru

Word Wise

Asperity: harshness; bad temper
 Synonyms: virulence, acerbity, acrimony, rancor, tartness, edge, crabbiness, churlishness, crossness, antagonism, etc.
 Examples:
 She responded to his questions with a strange asperity.
 Will's teacher possessed an aura of virulence.
 After an arduous day at work, John spoke to his friend with his rancor.

Anhuselvan S, class VII, Yukta Purohit, class VIII, DPS E-City, Bengaluru

EXPLORE YOUR CREATIVITY

Develop a story based on the pictures in around 250 words. Send your entry along with your name, class, school and picture at: toinlet75@gmail.com

WORD WATCH

1) en
 to be negative
 to be affirmative
 put into
 to be true to

2) per
 carefully
 inherently

3) dis
 apart
 out of
 before

4) accordingly
 through

5) veranda n.
 rooftop widow's walk
 inner courtyard
 broad view
 large, mostly open porch

6) accordingly
 through

7) island of volcanic rock
 ring-shaped coral island
 life buoy

8) veranda n.
 rooftop widow's walk
 inner courtyard
 broad view
 large, mostly open porch

VOCABULARY BUILDER

1) competent
 aggressive
 serene
 capable
 determined

2) induce
 to bring about
 to betray
 to confuse
 to give pleasure

3) mauler
 to handle roughly
 to cheat
 to move listlessly
 to distribute

4) Stygian
 deep
 gloomy
 distant
 dirty

5) niche
 suitable position
 rest period
 risky shot
 low score

CHECK YOUR APITUDE

1) If A exceeds B by 40% and B is less than C by 20% then A : C = ?
 A) 3 : 1 B) 3 : 2 C) 26 : 25 D) 28 : 25

2) If a, b, c,..... x, y, z are 26 natural numbers in the same order then the value of (x-a) (x-b) (x-c)..... (x-y) (x-z) = ?
 A) 1 B) 0 C) 13 D) 26

3) A clock (12 hour clock) rings once at 1 o'clock, twice at 2 o'clock and so on at every hour. How many times will it ring totally in a day?
 A) 156 B) 78 C) 200 D) 12

4) A patch of lily pads float in a lake. Every day the patch doubles in its size. If it takes 48 days for the patch to cover the entire lake, how long would it take to cover half of the lake?
 A) 24 B) 12 C) 47 D) 48

ANSWER: 1) D) 28 : 25, 2) B) 0, 3) A) 156, 4) C) 47

Sumeetha Pathak, teacher, DPS E-City, Bengaluru

ANSWERS

1) Put into: cover with, as, encircle, enshrine, enamour Latin. 2) Through (throughly, as, percolate, permeate, perspective Latin. 3) Apart, away from, undo, as, dismiss, disarm, disarray, disoble Latin. 4) Ring-shaped coral island and reef enclosing a lagoon. From atolu, native word for the Maldive Islands. 5) Large, roofed and usually open porch, often extending across the front and sides of a house. Hindi veranda.

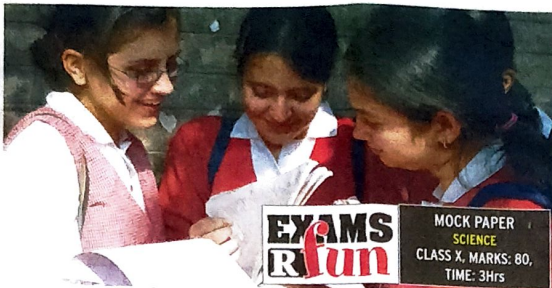
1) capable
 2) to bring about
 3) to move listlessly
 4) gloomy
 5) suitable position

SCIENTIFIC FACTS ON YOUR FINGERTIPS

The Science Faculty of Delhi Public School Electronic City, Bangalore, Presents A Paper For You To Get A Feel Of The Boards

GENERAL INSTRUCTIONS

- Read all the questions carefully
- Question number 1 to 20 carry 1 mark each.
- Question number 21 to 30 carries 3 marks each.
- Question number 31 to 36 carries 5 marks each
- All questions are compulsory.
- Write with neat hand writing.



EXAMS R Fun
MOCK PAPER
SCIENCE
CLASS X, MARKS: 60,
TIME: 3hrs

- Q.1** Which of the following is not an acidic salt?
i) CuSO_4 ii) NH_4Cl
iii) FeCl_3 iv) CH_3COONa
- Q.2** CHO represents the functional group
i) alcohol ii) Ester
iii) Aldehydes iv) Carboxylic acid
- Q.3** A biochemical compound that readily combines with oxygen and distributes it throughout the human body is
i) water ii) Urea
iii) Haemoglobin iv) Hormone
- Q.4** The hormone that is used to keep flowers fresh is
i) Cytokinin ii) Auxin
iii) Gibberellins iv) Abscisic acid
- Q.5** In case the ova do not fertilize, which of the following events will take place?
i) Menstruation ii) Pregnancy
iii) Implantation iv) Ovulation
- Q.6** Wild cabbage has evolved into new varieties like cabbage, broccoli, cauliflower by
i) Genetic drift ii) Natural selection
iii) Reproductive isolation iv) artificial selection
- Q.7** A convex lens has a focal length of 10 cm. At which of the following position should an object be placed so that this convex lens may act as a magnifying glass?
i) 15 cm ii) 7 cm iii) 20 cm iv) 25 cm
- Q.8** (a) A wire of resistance R_1 is cut into five equal pieces. These five pieces of wire are then connected in parallel. If the resultant resistance of this combination be R_2 , then the ratio R_1/R_2 is
i) 1/25 ii) 1/5 iii) 5 iv) 25
- Q.9** The frequency of direct current is
i) 0 Hz ii) 50 Hz iii) 60 Hz iv) 100 Hz
- Q.10** The least distance of distinct vision for an young adult with normal vision is about _____ cm
- Q.11** Cinnabar is an ore of _____

- Q.12** Name the constituents of baking powder
- Q.13** What is the process of depositing zinc on iron called?
- Q.14** The development of foetus inside the uterus till birth is called _____
- Q.15** Why is Pituitary gland is known as master gland?
- Q.16** The _____ is where the respiratory and digestive passage come together.
- Q.17** If an ammeter has 20 divisions between the 0 mark and 2A mark on its scale, then the least count of the ammeter is _____

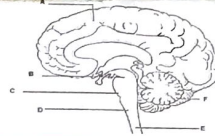
Q.22 Write a chemical equation in each case to represent the following types of chemical reactions of organic compounds.
a) Oxidation reactions b) Addition reactions
c) Substitution reactions

Write balanced chemical equation for the following reactions
a) Dilute sulphuric acid reacts with sodium carbonate b) Carbon dioxide is passed through lime water. c) Reaction of zinc granules with sulphuric acid.

Q.23 A metal 'X' acquires a green colour coating on its surface on exposure to air.
a) Identify the metal 'X' and name the process responsible for this change.
b) Name and write the chemical formula of the green coating formed on the metal.
c) List two important methods to prevent the process.

Q.24 a) Where are salivary glands found in humans? What are their functions?
b) Name the first digestive organ that is associated with the breakdown of proteins in humans. What are its three releases?
OR
List the three types of blood vessels of human circulatory system and write their functions in a tabular form.

Q.25 a) Identify the labelling of the following diagram.
b) Write at least one function of the brain

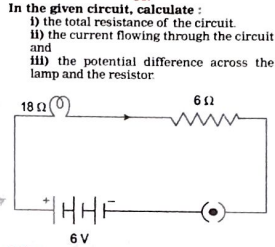


- Q.26** a) Name the two types of germ-cells present in human beings. How do they structurally differ from each other? Give two differences.
b) Why are testes outside the abdominal cavity of the body?
- Q.27** a) Differentiate between homologous and analogous organs with suitable examples
b) Define genetic drift.

Q.28 A 3 cm tall object is placed 18 cm in front of a concave mirror of focal length 12 cm. At what distance from the mirror should a screen be placed to see a sharp image of the object on the screen.
Also calculate the height of the image formed
OR
Draw a ray diagram to show the path of the refracted ray in each of the following cases. A ray of light incident on a concave lens is

- i) passing through its optical centre
ii) parallel to its principal axis
iii) directed towards its principal focus.

Q.29 The resistance of a wire of 0.01cm radius is 10Ω. If the resistivity of the material of the wire is $50 \times 10^{-8} \Omega \text{m}$, find the length of the wire.
OR
In the given circuit, calculate :
i) the total resistance of the circuit.
ii) the current flowing through the circuit and
iii) the potential difference across the lamp and the resistor



Q.30 Nehal lives in Bengaluru and is much concerned about the increasing electricity bill of her house. She took some steps to save electricity and succeeded in doing so.
i) Mention any two steps that Nehal might have taken to save electricity.
ii) Nehal fulfilled her duty towards the environment by saving electricity. How?

- Q.31** a) Give reasons for the following observations:
i) Ionic compounds have high melting points and boiling points.
ii) Highly reactive metals cannot be obtained from their oxides by heating them with carbon.
b) i) State the electron dot structure for calcium and sulphur.
ii) Show the formation of CaS by transfer of electrons

- iii) Name the ions present in this compound CaS
OR
a) Show the formation of magnesium chloride by transfer of electrons.
b) Give three differences between displacement and double displacement reactions.

Q.32 A metal nitrate 'A' on heating gives yellowish brown coloured metal oxide along with brown gas 'B' and a colourless gas 'C'. Aqueous solution of 'A' on reaction with potassium iodide forms a yellow precipitate of compound 'D'. Identify A, B, C and D. Also identify both the types of reactions. Metal present in A is chemical equations. Metal present in A is used in alloy which is used for soldering purposes.

- Q.33** a) A group of grasshoppers- some green and some brown lived in a grassland having dry bushes and dry grass.
i) Which one would normally be picked up by predatory birds and why?
ii) Population of which grasshopper will increase?
iii) Name this phenomenon.
b) What are acquired traits? Explain with suitable examples.

Q.34 a) Describe an activity to show that sunlight is essential for photosynthesis.
b) Draw a diagram to show the nutrition in Amoeba and label the parts used for this purpose.

Q.35 What are magnetic field lines? List three characteristics of these lines. Describe in brief an activity to study the magnetic field lines due to a current flowing in a circular coil
OR
i) Draw a schematic labelled diagram of domestic electric circuit.
ii) Why is it necessary to provide a fuse in an electric circuit?
iii) Alternating Current used for long distance transmission? Give reason.

Q.36 i) A student suffering from myopia is unable to see distinctly the objects placed beyond 5 m. Calculate the power of the corrective lens used to restore proper vision.
ii) Define : dispersion of light
iii) Name the type of mirror used in headlights of a car. Support your answer with reasons.

These questions and the marks alongside are meant for practice purpose only. Students are advised to check format, syllabus and marks for Board test papers with their teachers. Questions have been given by teachers and NIE is not responsible for them.

MATHEMATRICKS

USE MNEMONICS TO HELP REMEMBER CONCEPTS:

a) Trick to remember unit conversion in Metric system
King Henry Died on Monday Drinking Chocolate Milk
Kilo Hecto Deca Meter Deci Centi Milli

b) Trigonometric ratios can be learnt by using:
Oscar/Had (sin) A/Heap (cos) C/Apples (tan)

c) Circle

Circumference Of A Circle

Cherry pie's delicious: Circumference = $\pi \times d$

Area of circle:

Apple pies are hot: Area = $\pi \times r^2$

TRICKS AND TIPS FOR SPEEDY CALCULATIONS

a) Finding squares of numbers with unit's digit 5:

For such a number the last two digits will be 25 and the previous digits are obtained by multiplying the number formed by the remaining digits with its next consecutive number.

For e.g. Square of 85 = $8 \times 9 = 72$ 25 = 7225

Square of 615 = $61 \times 62 = 3782$ 25 = 378225

b) Finding square of any number

Let us try to find square of 103

103 is 3 more than 100, so +3.

$(103)^2 =$

$103 + 3 = (106) \mid (03)^2 = 09$

$(103)^2 = 10609$

If number is lesser than 100

98 is 2 lesser than 100, so -2.

$(98)^2 =$

$98 - 2 = 96 \mid (02)^2 = 04$

$(98)^2 = 9604$

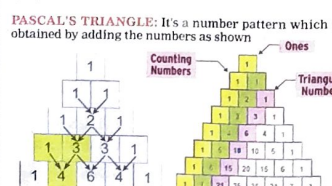


DIVISIBILITY RULES:

a) A 3-digit number is formed by repeating the same digit (e.g. 111, 222, 333, ...) that will be divisible by 3 and 9

b) A 6-digit number is formed by repeating the same digit (e.g. 111111, 222222, 333333, ...) that will be divisible by 3, 7, 11, 13 and 37

PASCAL'S TRIANGLE: It's a number pattern which is obtained by adding the numbers as shown



Each row represents the certain power of 11

$11^0 = 1$

$11^1 = 11$

$11^2 = 121$

$11^3 = 1331$

$11^4 = 14641$

$11^5 = 161051$

$11^6 = 1771561$

Pascal's triangle also gives the coefficients of terms in binomial expansions

Power Binomial Expansion Pascal's Triangle

2 $(x+y)^2 = 1x^2 + 2xy + 1$ 1, 2, 1

3 $(x+y)^3 = 1x^3 + 3x^2y + 3xy^2 + 1$ 1, 3, 3, 1

4 $(x+y)^4 = 1x^4 + 4x^3y + 6x^2y^2 + 4xy^3 + 1$ 1, 4, 6, 4, 1

Bust the exam beast, stay in control

Exams can cause a lot of undue stress and anxiety. As the exams approach, as students you feel the pressure of exams getting to you. This is not surprising; in fact it is quite normal to feel some nervousness. Most people find that a bit of pressure spurs them on and enables them to get down and do some serious planning and work. However, examination stress can be a real problem, especially when it reaches a height where nervousness takes over and one cannot even focus on the test questions. The triumph lies in adequate stress management. Different people experience and respond to stress in different ways. Some of the common symptoms of exam stress include problems with sleeping, loss of appetite, anxiety and irritability.

WAYS TO KEEP STRESS AT A MANAGEABLE LEVEL

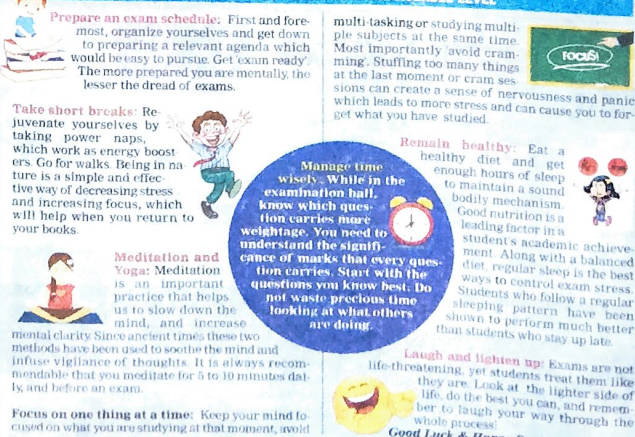
Prepare an exam schedule: First and foremost, organize yourselves and get down to preparing a relevant agenda which would be easy to pursue. Get exam ready! The more prepared you are mentally, the lesser the dread of exams.

Take short breaks: Rejuvenate yourselves by taking power naps, which work as energy boosters. Go for walks. Being in nature is a simple and effective way of decreasing stress and increasing focus, which will help when you return to your books.

Manage time wisely: While in the examination hall, know which question carries more weightage. You need to understand the significance of marks that every question carries. Start with the questions you know best. Do not waste precious time looking at what others are doing.

Remain healthy: Eat a healthy diet and get enough hours of sleep to maintain a sound bodily mechanism. Good nutrition is a leading factor in a student's academic achievement. Along with a balanced diet, regular sleep is the best ways to control exam stress. Students who follow a regular sleeping pattern have been shown to perform much better than students who stay up late.

Laugh and lighten up: Exams are not life-threatening, yet students treat them like they are. Look at the lighter side of life to laugh your way through the whole process! Good Luck & Happy Studying!



Simple Machine Mnemonic

"LAZY PETER SLEPT WHILE I WORKED"



Milan Singh, class VI, DPS Electronic City, Bengaluru