



# THE TIMES OF INDIA

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STUDENT EDITION

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WEB EDITION

DID YOU KNOW?



## Earth's magnetic field can change 10 TIMES FASTER THAN THOUGHT

Using simulations in the laboratory, scientists have revealed that changes in the direction of the Earth's magnetic field may take place 10 times faster than previously thought. The study gives new insight into the swirling flow of iron, 2,800 kms below the planet's surface, and how it has influenced the movement of the magnetic field during the past 100,000 years...



### What is Earth's magnetic field?

Earth's magnetic field is the magnetic field that extends from the Earth's interior out into the space, where it interacts with the solar wind, a stream of charged particles emanating from the sun. It is created by the movement of liquid iron in the Earth's outer core, some 2,896 km below our feet.

**How does it work?** The iron is super hot (over 3,000 degrees Celsius) and like water flows very easily. While flowing, it drags the magnetic field with it, and its corresponding North and South poles.

### Are magnetic poles the same as geographical poles?

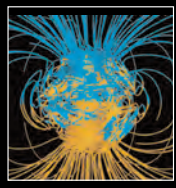
No. These magnetic North and South Poles are different from the geographic North and South poles. The geographic North and South poles are in a fixed position; they are diametrically opposite to each other. However, the magnetic North and South Poles are constantly moving. Over time, they become misaligned with their geographic equivalents.

**How often does the Earth flip poles?** According to scientists, the Earth's magnetic field regularly flips poles in every few 100,000 years. The latest World Magnetic Model, which tracks the movement of the Earth's magnetic field, revealed last year that the magnetic North pole is moving on its own. Last year, researchers reported that the Earth's magnetic North Pole is travelling at a rate of 48km per year. This is the fastest recorded shift of the Earth's north, since the mid-16th century, they say.

**Why do these changes happen?** Scientists say these rapid changes are due to the local weakening of the magnetic field. This means that these changes have generally occurred around times, when the field has reversed polarity or during, what are known as, 'geomagnetic excursions'.

### IMPACT OF REVERSING MAGNETIC FIELD

One of the biggest impacts of reversing magnetic field, according to scientists, will be on animals that use the magnetic field for navigation, especially, turtles and birds.



It will affect human beings too. The biggest risk depends on how weak the field gets during its transition. If it gets too weak, more radiation will get to the Earth's surface and could cause cancer.

Importantly, the direction of compass will also change—North on the compass will point to Antarctica rather than Canada.

It could also cause havoc for aviation and navigation systems, including smartphone apps that use GPS.

### CELEB TALK

#### 'I have accepted vegetarianism to reduce carbon footprint'

Actress Shilpa Shetty, known as a fitness freak, has said that she is ready to make major lifestyle changes to contribute towards the cause of climate change. In an Instagram post, the actress revealed that she has turned into a complete vegetarian to reduce carbon footprint.

Over the years, I've realised that cultivating livestock for food, has not only destroyed forests, but also been the largest source of carbon dioxide, methane, and nitrous oxide emissions. These are majorly responsible for the climate change, our planet is experiencing. Following a vegetarian diet is not only beneficial for animals, but also can actually protect us from lifestyle diseases. Shilpa Shetty



LET'S START A CAMPAIGN ON THE BENEFITS OF VEGANISM

PLEASE SHARE SLOGANS, POSTERS, CARTOONS AND ARTICLES TO DRIVE THIS CAMPAIGN AT toinie175@gmail.com/timesnie175@gmail.com

Top entries will be featured in TIMES NIE!!!

## Mona Lisa charms visitors as Paris' LOUVRE reopens



Louvre Museum, which houses the world's most famous portrait, welcomed limited number of visitors, as it reopened on Monday, after a four-month coronavirus lockdown.

### WHAT DO YOU KNOW ABOUT MONA LISA

1) Which person is believed to be the subject of the Mona Lisa?  
a) Mona Giocondo b) Lisa Simpson c) Lisa Gherardini

2) In which year did the Mona Lisa become part of the collection at the Louvre?  
a) 1593 b) 1693 c) 1797

3) In which year the Mona Lisa was stolen from the Louvre museum?  
a) 1901 b) 1911 c) 1927

4) Why was the Mona Lisa removed from the Louvre in 1939?  
a) The painting was loaned to Italy b) It needed to be cleaned c) To protect it from damage or theft during WW-II

ANSWERS: 1) C 2) C 3) B 4) C

## CBSE REVISES CLASS IX-XII SYLLABUS FOR 2020-21 academic session

The Central Board of Secondary Education (CBSE) has rationalised the syllabus by up to 30% for classes IX to XII for the academic year 2020-21 to reduce course load of students amid the Covid-19 crises. Union HRD minister Ramesh Pokhriyal announced on Tuesday. The curriculum has been rationalised, while retaining the core

elements. The Union minister said the changes made in the syllabi have been finalised by the respective course committees with the approval of the curriculum committee and the Governing Body of the Board. According to the updated curriculum, among the chapters deleted from class X syllabus are— democracy and diversity, gender, religion and caste.

The heads of schools and teachers have been advised by the Board to ensure that the topics that have been reduced are also explained to the students to the extent required to connect different topics. However, the reduced syllabus will not be part of the topics for internal assessment, and year-end board examination. For classes I to VIII, the National Council of Education Research and Training (NCERT) has already notified an alternative calendar and learning outcomes.



### EDUCATION

## WASH SALAD GREENS THE RIGHT WAY

A bowl of salad is an excellent source of natural fibre; it helps in weight management too. For instance, Lettuce, an important salad green, is rich in Vitamin C, K, A, calcium, folate and potassium. So is spinach that is high in folate, calcium and other nutrients.

However, leafy greens carry a lot of dust and dirt with them, so it is very important to clean them thoroughly before consuming. Here are some tips to wash them in the best possible way...



STAY SAFE

- Wash salad greens as soon as you get them from the store, or your veggie vendor
- Take a large bowl and fill it with cool water. Then place the greens in them, after separating them from their stems
- Swirl the water so that it reaches every corner of the greens
- Soak the leafy greens in the water for at least 10 minutes. This helps all the dirt particles to settle down at the bottom
- Take them out of the water and dry them thoroughly. Make sure you dry them properly before storing them in the fridge, because if you keep water-soaked greens in containers, they run the risk of becoming soggy and can rot



### CORONA UPDATE

## Scientists say coronavirus is airborne; WHO acknowledge their claim

More than 200 scientists from 32 nations had written to the WHO, saying there is evidence that the coronavirus is airborne and even smaller particles can infect people, a significant departure from the UN health agency's claims so far that Covid-19 spread primarily through coughs and sneezes. A report in The New York Times said that clusters of infections are rising globally as people go back to restaurants, offices, markets and casinos, a trend that increasingly confirms that the virus lingers in the air indoors, infecting those nearby. In an open letter to the WHO, around 239 scientists outlined the evidence showing that smaller particles can infect people. They had also urged the agency to revise its recommendations.

The World Health Organisation (WHO) had long held that the coronavirus is spread primarily by large respiratory droplets, when an infected person coughs or sneezes.

In its latest update dated June 29 on the coronavirus, the WHO said airborne transmission of the virus was possible only after medical procedures that produce aerosols or droplets, smaller than 5 microns. However, the WHO, on Tuesday, acknowledged scientists' claim on the basis of "evidence emerging" of the airborne spread of the novel coronavirus.





# Perfect blending of tech and textbooks

The Venkateshwar Global School, Sec-13, Rohini started its virtual classes. Some of the best practices of online pedagogy being followed by the instructors are: Focus on 'Active and Blended Learning' - teachers ensure that the lessons are mix spurts of discussions, collaborations etc. Making the best use of online tools and applications available- using a variety of applications like Microsoft Forms, Class Notebooks, Assignments, Sway etc. Encouraging community learning- ensure that the sense of presence is enhanced when everyone shows their face via their webcam. Embedding digital citizenship among learners- A set of explicit expectations for online participation, communication, and

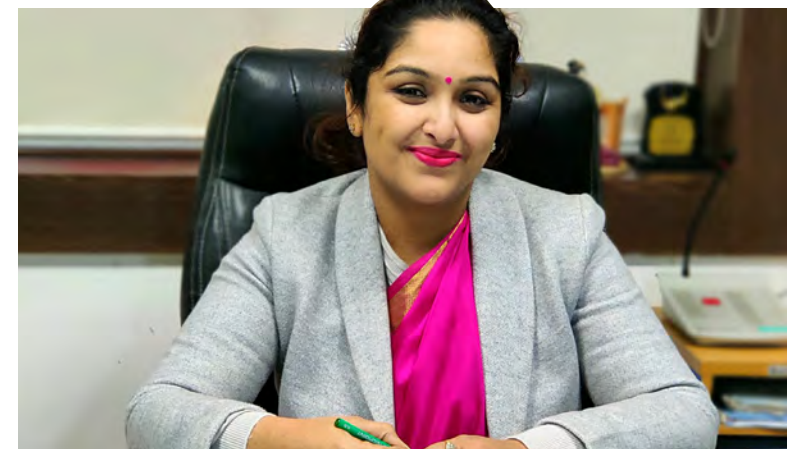


etiquette are set by the teachers. Providing prompt feedback - conduct quizzes and provide assignments on Microsoft Forms, Class Notebooks etc.to improve learning outcomes. Motivating students by making a real-world connection- connect the concepts

they have learned with real-life applications thereby enhancing their critical thinking skills. Active involvement of the parent community- parents are invited in the meetings to share their views and are given regular feedback. Doubt clearing sessions and one to one personalized classes given by teachers. In these difficult times, meeting the social-emotional needs of students is also crucial. The VGS has ensured that stress buster activities like Art, Yoga, Aerobics, Music and Dance sessions have also been added to the time-table. Life-skills and Values are being imparted through discussions during morning assembly periods. Teachers have also incorporated stretching and eye exercises at regular intervals into their classes to ensure relaxation and better focus.

KAVITA SONI, Principal, The Venkateshwar Global School, Sector-13, Rohini

# ENSURING WELL-BEING OF KIDS IN TURBULENT TIMES



The current pandemic and consequent restrictions are having a significant impact on the health, well-being and cognitive development of the children. Constrained within the confines of their homes with minimal social interactions and negligible physical activity, children have been facing significant unease over the last few months. The uncertainty about the future and the constant bombardment of depressing news over mass media as well as social media are only adding to the angst. Such prolonged periods of anxiety during critical, formative years of childhood can have a lifelong impact. Progressive schools are venues of holistic learning which go beyond merely imparting learning. They focus on developing personality traits, instilling values, inculcating life skills and providing a conducive environment for physical, cognitive, emotional & social development of students. Simple tips can help parents to mitigate the adverse effects of the current restrictions and ensure the well-being of our kids. Spending quality time with them and building cherishable memories of wonderful family times would definitely top this list. Engaging with kids frequently and assuring them that the scene is not as gloomy as is being painted by the media would definitely provide the necessary succour. Encouraging children to connect with friends & relatives using technological facilitators regularly would also assist in relieving them of their anxieties. We must also encourage them to remain physically active through indoor or outdoor activities which they can do even while maintaining social distancing & following requisite best practices for ensuring hygiene. Above all, we must endeavour to set an all-inclusive but realistic routine for them, which will provide them with the requisite comfort & consistency in their daily lives. Let us all do these small little things that can work wonders for the well-being of our kids!

ALPANA BAVEJA, Principal, Manav Rachna Int School, sec 51, gurgaon

# What would be our life without our GURUS?

LT Atul Katarya Memorial School celebrated Guru Purnima to remember, thank and express gratitude to the Master and seek his blessing to lead a successful life in all solemnity. A live online assembly was organized for the entire school in the morning paying tribute to all persons who are directly or indirectly play a role of a teacher in the life of everyone. The significance of the day was beautifully explained to the students by teachers who were comparing the event. It was followed by poems and speeches by students from various classes highlighting the indelible impression that teachers leave for everyone to cherish. Addressing the students on the occasion, Ms Sumitra Katarya, the esteemed Director of the school, exhorted the students to pay

Principal Anshu Nakra emphasised that gurus teach life lessons & lead pupils to glory. She said that parents & teachers shape morals as children step into the future. One must always pay gratitude & devotion to them.



their respect to mothers, elders and more importantly teachers whose guidance and blessings bring perfection and joy to life. She also used this auspicious occasion to advise children to adopt a healthy and hygienic lifestyle to defeat the pandemic threatening the world. The Principal Anshu Nakra won the hearts of students with her inspiring words in which it was emphasized that gurus teach life lessons and lead pupils to glory. Referring to ancient scriptures, she said that parents and school teachers shape our morals as we step into the future. We must always pay deep gratitude and devotion to all who guide and lead our lives to success. The assembly was concluded with a vote of thanks remembering the contribution of all teachers all students who made it a memorable event.

# PRO-ACTIVELY CREATING FUTURE

Sam International school grabbed an opportunity for the students of class XII to participate in an online discussion on "Transition from Schools to Universities during Covid-19 outbreak". This became possible because of the constant effort of dynamic school Principal Karuna Verma. Session began with students' anxieties and uncertainties about missing environment of schools and colleges also late commencement of admissions, conduction of Science practical and so on. They were intelligently answered by educationists that the whole world is in the same boat. They were also suggested to utilize this time with parents and in the planning of better future potential. Name of the schoolers who participated are Kirti Mondal, Anvesha Riya, Aastha Bhatt, Harsh Sehrawat and Rakshita Kataria.



# Fostering global citizens locally

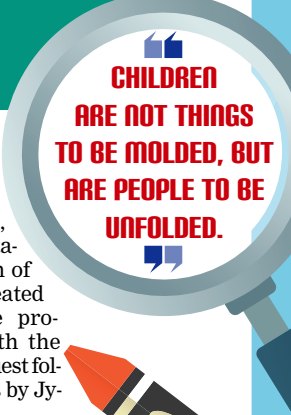
The MUN Secretariat of St Marks Girls School, Meera Bagh comprising of Mehak Sharma, Diya Anand and Pritika Thukral of class XII organized a two-day online MUN (Global Youth Parliament). 63 delegates from different schools across India participated in the conference making it one of the largest E-Debating platform. Students utilized the opportunity offered by this platform and transformed into delegates and caricaturist, defending the national policies of countries through their research and by portraying the current situation of corona pandemic through the political cartoons.



This platform, apart from giving students an opportunity to debate with equally enthusiastic delegates from various schools was also organized with noble intent. The proceeds from the event were donated to PM CARES as a humble contribution towards the nation's fight against COVID-19. The United Nations and governments have certainly had to address pandemics and other global issues in the past, and will face them again in the future. We need to prepare future world leaders who are ready to tackle future global challenges.

was celebrated and various activities were organized like Sukti Writing, Hymns, Recitation, Reading and Hanuman Chalisa Kriyakalpa. The programme was attended by the Principal Vandana Baberwal, all the Coordinators, Departmental Heads, and the participants. The programme started with a Welcome Song sung by Vasundhara (VIII) followed by Recitation Competition, Elocution Competition and a Presentation of Slogans and Posters along with various activities conducted during the week. Sanskrit Day, Srijan-Sanskritothan,

Guest for the day. The activities which kept the audience spellbound were Moral Stories, Hymns Recitation, Recitation and a Presentation of Posters and Slogans created by the students. The programme concluded with the blessings by the Chief Guest followed by Vote of Thanks by Jyoti Arora, HOD Hindi.



# To the real supermen... the fathers

The students and teachers of Blue Bells Public School, Sector 10, Gurugram celebrated Father's Day over the Webinar platform. Over 200 students from all the Wings participated in the celebration and the event was attended by over

250 fathers. The event was attended by Dr Saroj Suman Gulati, Director, Blue Bells Group of Schools and Anshuka Aneja, Deputy Director (IT). Vice-Principal Arpita Acharya welcomed the guests and Jyotika Saikia, Primary Wing Leader, extended the Vote of Thanks. The fathers were entertained by myriad presentations by the juniors and seniors. Poetry recitation, songs, dance performances and emotional messages by the children mesmerized the audience, as the children tried to put their best foot forward. All performances emphasized the truth that a father's love for his child compares to nothing else in the world.

# Different languages are different visions of life

Balvantray Mehta Vidya Bhawan, Anguri Devi Sher Singh Memorial Academy, Second Shift, GK II celebrated English Language Week "PRAXIS" (When Ideas Meet Actions). This year the theme was "NATURE". Various activities which included Debate, Quiz, Slogan Writing, Poster Making and Poem Writing were conducted during the week. Children presented a plethora of ideas through their self-composed poems, posters and slogans. The week long celebration culminated with a programme presented online which was at-

tended by the Principal Vandana Baberwal, all the Coordinators, Departmental Heads, and the participants. The programme started with a Welcome Song sung by Vasundhara (VIII) followed by Recitation Competition, Elocution Competition and a Presentation of Slogans and Posters along with various activities conducted during the week. Sanskrit Day, Srijan-Sanskritothan,



KHUSHBOO, XI, adarsh world school, dwarka



SAMIKSHA, X, Shanti Gyan Niketan Sr Sec School, Goyal vihar



AARUSHI THUKRAL, 12B MANAV STHALI SCHOOL