



THE TIMES OF INDIA

www.toistudent.com

CLICK HERE: WWW.TOISTUDENT.COM

STUDENT EDITION

THURSDAY, JULY 9, 2020



WEB EDITION

DID YOU KNOW?



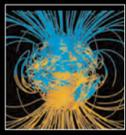
Earth's magnetic field can change 10 TIMES FASTER THAN THOUGHT

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...



IMPACT OF REVERSING MAGNETIC FIELD

1 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



3 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

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

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

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'

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

