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STUDENT EDITION

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WEB EDITION

DID YOU KNOW?



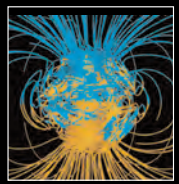
Earth's magnetic field can change 10 TIMES FASTER THAN THOUGHT

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...



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



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

Which person is believed to be the subject of the Mona Lisa?

- a) Mona Giocondo b) Lisa Simpson
c) Lisa Gherardini

In which year did the Mona Lisa become part of the collection at the Louvre?

- a) 1593 b) 1693 c) 1797

In which year the Mona Lisa was stolen from the Louvre museum?

- a) 1901 b) 1911 c) 1927

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...



- 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





STRAIGHT FROM THE HEART



THE LAST TWO MONTHS HAVE MADE ME A BETTER PERSON

There's a virus on the run
No, I'm not kidding and it isn't a pun
I hate the one who created it
The world's economy is in a pit

There was a lockdown
Hope the doctors set it
Now who knows
I might have changed
Hmm, let's check number one
I have not become lazy or aged
We played games but it is not my fault
That we have not won
I read a book and omg i fell in love
With it
It was about a call center with god
In it
Then a book of Paulo Coelho called
The alchemist
My god! You definitely have to read it
I was restless as I was an extrovert
But due to the Covid-19 I became an introvert
After this checklist I finally knew
That this is the conclusion and
These 2 months brought a
Change in me

V Arjun, class IX D, Bharatiya Vidya Bhavans
Public School, Film Nagar, Jubilee Hills



O' PRECIOUS MOTHER, LOOK AT THEE

What has happened?
Oh no! look there
Trees being cut,
Smoke everywhere,
Cars giving out dust,
Animals crying,
Flowers withered,
Water constantly drying.
Forest fires,
Resources none.
All because of us,
The beauty is gone!
O' precious mother,
Look at thee,
Give us another chance
To set you free.
We shall plant trees,
Sow a seed,
Use cycles
And stop the greed.

O' precious mother,
Look at thee,
Give us another chance
To set you free.

Sai Upasana, class VIII D,
Meridian School, Banjara Hills, Hyderabad

Poetry is when an emotion has found its thought and the thought has found words, said Robert Frost. In this space, we encourage students to pen down their thoughts or anything that inspires them in the form of verse. We do not entertain poems that have been copied off the internet or elsewhere; all poems should be the original work of the students. Entries can be sent to hyd.nie@gmail.com with the full name, class and school of the student.



ALL I DO IS SIT BY THE WINDOW

All I do is sit by the window
Sit so still like a weeping willow
How I wish I could go out and play
All I see when I go out every day is
The empty cars in the alleyway

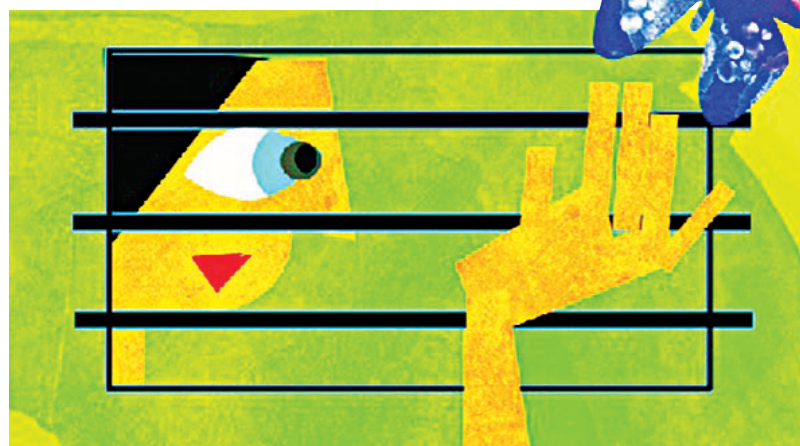
How I wish I could go back
Back to my school
But this Corona stays
As stubborn as a mule

All it makes me see around is despair
Oh! For a little girl this is too much to bear,
We were caught in this trap rather
unaware
All we can do is to always beware

But we are just children
We still have to bloom
Cause little buds of joy
Shall wither in gloom

How I dream of the corridor
And my beautiful class
And how foolish was I
To think all that was a bore

Now I sit in front of the screen all day



But I wish I could stand at that door
And yell "may I?"
And she'd say "come in"

Those lovely days in the school ground
Running around in the golden sun
And we would return thoroughly browned
I really do miss all that fun

Those little jokes and quiet whispers
And the muffled giggles, were quiet
sinister

And those nicknames we gave with a
little sneer
We made new ones year after year

How I wish to run out that door
Catch that long bright yellow bus
I now really miss it to the core
I shall never again complain that my day
was a bore.

Sumana Akula, class VIII,
Delhi Public School, Secunderabad



HERE THEY COME

The tremors deep below
Hear the hum
The earth opens to swallow
Up and up the buildings rise
But none takes notice of mother's cries
Tears pour down as what we call rain
Little do we know of the hidden pain
We've become blind to true beauty
We have all but crave for more
but as her children, it is our sincere duty
to take her in our arms and let love restore.

K Nihita, class X B, Delhi Public School, Nadergul

PREVAILING IN THE DARK

In a melancholy dark;
fader than a devil's tyranny;
Made attempts to move hither thither;
Sometimes unusual listless slither.

Don't stand by my shadow lair;
For you will get curse of dark shades;
Then you will get curse of dark shades;
With your excellent vivid eyes.

No one try to step with me;
For my only hope is to be;
The divine rays of sunlight to see;
Attain momentum and flight to flee.

Shiva Kumar, class X A, Delhi Public School, Nacharam



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FOREST, A PERFECT HARMONY

'Forest', a perfect harmony,
Where the beauty of wildlife beholds,
It plays the most unique symphony,
Which cannot be discovered by the urban molds.

'Forest', a perfect harmony,
Of various phyla, genera and species,
Unlike developed civilisation and colony,
Of humans who marginalise their species.

'Forest', a perfect harmony,
Establishes symbiotic relationships,
Unlike humans facing agony,
Due to conflicts on land and relationships.

'Forest', a perfect harmony,
Sets no old-age homes and orphanages,
For the oldest quahog and orphaned pony,
As they don't dispose lives, like human savages.

Go, get into the wild, to learn,
The most unacquirable insights on life,
And experience your heart burn,
In regret for all your past strife.

You need not mention your race, caste or money,
And you are safe between the folds,
Of 'Forest' which is a perfect harmony,
Where the beauty of wildlife beholds.

Vaishnavi A Das, class X A, Army Public School,
Bolarum, Secunderabad



MOTHER!

A bowl of happiness,
a bowl of peace,
a bowl of enjoyment,
a dish will all specialties....
Though she thinks she is nothing,
she is everything for everyone,
only one who cares for everyone,
but no one cares about her!
she is a best friend,
The most kindest of heart..
GUESS WHO?
our lovely mother!
MOTHER a word of happiness,
MOTHER a word of satisfaction...

Archana Ayyagari, class IX, Silver Oaks
International School, Hyderabad



MY DREAM WORLD

I build my dream castle every day..
And shape them out in such a way,
That has a wondrous way to play,
On which vast grass lay.
When my life is full of pain,
My dream house shelters me with rain.
I have my world,
To make me as bold as gold.
I shut my eyes at night,
To start a new day bright

Charishma Sivaranjani,
class VIII,
Gitanjali Devakul,
Hyderabad

