



# THE TIMES OF INDIA

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**TODAY'S EDITION**

► Independence Day is just a few days away. Let's decode the journey of National Emblem on News to Use  
**PAGE 2**



► Remember Gangnam Style that became a rage a few years ago? Find out why it is making a comeback now  
**PAGE 4**



► Gukesh, Sarin shine on final day as India end 44th Chess Olympiad with individual medal haul  
**PAGE 6**


**STUDENT EDITION**

THURSDAY, AUGUST 11, 2022



**Why Taj Mahal will not be illuminated in Tricolour theme this Independence Day?**



The government of India is celebrating Azadi Ka Amrit Mahotsav to mark the country's 75 years of independence. Historic buildings across the country will be lit up in the colours of the Indian flag to mark the milestone. However, the Taj Mahal won't be lit up in the tricolour theme. Here's why... According to social activist Vijay Upadhyay, the Taj Mahal was lit up for the last time on the night of March 20, 1997, for the show of renowned pianist, Yanni. On the morning after the show, the white-marble mausoleum was found to be overrun by dead insects. After the incident, the chemical wing of the Archaeological Survey of India recommended that the Taj Mahal should not be lit at night because the insects leave a lot of stains on the monument's surface which corrodes the marble. Even though there are better lighting options today, the ban on lighting up the Taj Mahal has not been lifted since 1997.

■ The Taj Mahal was the first monument in India to be illuminated at night for a celebration. Vishal Sharma, the editor of Agra's Tourist Welfare Chamber said, when the Allied forces won the Second World War about 77 years ago, the Taj Mahal was lit up in various lights and a grand celebration was organised inside the monument



## Spotlight

"I have never liked the word retirement. Maybe the best word to describe what I'm up to is evolution. I'm here to tell you that I'm evolving away from tennis, towards other things that are important to me. A few years ago, I quietly started Serena Ventures, a venture capital firm. Soon after that, I started a family. I want to grow that family."  
SERENA WILLIAMS

## Take a Bow, Serena!

Serena Williams said on Tuesday that she is "evolving away from tennis" and planned to retire from the sport she dominated with 23 Grand Slam titles following the US Open, which begins later this month..



■ Williams won her last Grand Slam in 2017 and has been chasing an elusive 24th crown that will draw her level with Margaret Court, who holds the record for the most majors. She came tantalisingly close to achieving that feat, featuring in four major finals since giving birth to daughter Olympia in 2017

■ In a career during which she dominated rivals like no other athlete, she also claimed 7 Australian Open titles, three French Open titles and seven Wimbledon crowns. Williams also owns 14 women's Grand Slam doubles titles with older sister Venus, and has won four Olympic gold medals: singles (2012), doubles (2000, 2008, 2012)

■ Williams' 23 Singles Grand Slams are the most by a woman in the Open era though she could potentially still tie for the most Grand Slam titles with Margaret Court, who won 24 Grand Slams in the pre-Open era as Williams said she will retire after the US Open that begins later this month

## In a first, UK restaurant puts carbon footprint on menu

The menu at The Canteen in southwest England doesn't just let diners know how much a dish costs. It tells you the carbon footprint too.

The carrot and beetroot pakora with yoghurt sauce is responsible for just 16 grams of CO2 emissions. The aubergines with a miso and harissa sauce with tabbouleh and Zaatar toast caused 675 grams of carbon dioxide. As customers weigh their options, the menu at the vegetarian restaurant in Bristol includes a comparison with a dish that it does not serve: the emissions from a UK-produced hamburger. The menu notes that a real beef burger's emissions is "10 times the amount of its vegan alternative". The Canteen became in July the first restaurant to agree to put its carbon footprint on the menu under a campaign spearheaded by UK vegan campaigning charity Viva! Whether diners will let carbon footprints influence their order choices remains unknown, but the menu innovation has stoked interest and support.



**Q** Can such innovative initiatives bring a difference? Share your views at [toinie175@gmail.com](mailto:toinie175@gmail.com)

The carbon footprints of businesses and consumers have come under growing scrutiny as countries scramble to limit global temperature increase to 1.5 degrees Celsius and to achieve the net-zero emission by 2050

The livestock industry replaces CO2-absorbing forests with land for grazing and soy crops for cattle feed. The animals also belch huge amounts of methane, a potent greenhouse gas

### WHAT IS A CARBON FOOTPRINT?

■ A carbon footprint is the total amount of greenhouse gas emissions that come from the production, use and end-of-life of a product or service. It includes carbon dioxide – the gas most commonly emitted by humans, and others, including methane, nitrous oxide, and fluorinated gases – which trap heat in the atmosphere, causing global warming. Usually, the

bulk of an individual's carbon footprint will come from transportation, housing and food

### WHAT'S YOUR CARBON FOOTPRINT?

■ You can also calculate your carbon footprint by knowing the following:  
■ Approximately, how many kms you travel by car, bus, train and plane  
■ The energy usage in your home.  
■ How much you spend on shopping  
■ The composition of your



your diet

### HOW TO LIMIT YOUR CARBON FOOTPRINT?

■ Consume local and seasonal products  
■ Limit meat consumption, especially beef  
■ Select fish from sustainable fishing  
■ Bring reusable shopping bags and avoid products with excessive plastic packaging  
■ Make sure to buy only what you need, to avoid waste

(Source: NYT)

## WhatsApp now gives over 2 days to delete messages after sending

Meta-owned messaging platform WhatsApp has confirmed that it is now letting users delete messages up to two days after they are sent. On the microblogging platform Twitter, WhatsApp announced the change in the option to delete sent messages. WhatsApp will allow users to delete a message up to two days and 12 hours after sending it. Previously, this limit was only one hour, 8 minutes, and 16 seconds. Meanwhile, the platform will soon release a new feature that will allow group admins the ability to delete messages for everyone.



■ WhatsApp is rolling out a new update through the Google Play Beta Program, bringing the version up to 2.22.17.12 and that will let group admins delete any message for everyone.  
■ The Meta-owned platform is also working on letting users edit their text messages for a future update of the app.  
■ Recently, a screenshot shared by the website showed that the messaging platform is developing a new option to let users fix any typo after sending a message.

## Now, a hotline to prevent air skirmishes?

Amid the protracted border row in eastern Ladakh, India and China are likely to set up a separate hotline between their Air Forces to prevent any possible escalation of the situation along the Line of Actual Control (LAC). Currently, the armies of the two neighbours communicate through hotlines.

The move assumes significance in the backdrop of the recent Chinese Air Force activities in the eastern Ladakh sector where they were frequently violating the 10 km 'Confidence Building Measure' line. On two occasions, the Indian Air Force (IAF) scrambled its fighter jets and activated other air defence measures.

### HOW WILL IT WORK?

► The issue of having a direct hotline between the Chinese PLA Air Force (PLAAF) and the IAF was discussed during the recent talks held in Chushul-Moldo border meeting point last week, government sources said  
► The structure and the level at which the hotline would be set up is likely to come up for discussion in future meetings  
► Currently, the Indian and Chinese armies maintain six



hotlines – two each in eastern Ladakh, Arunachal Pradesh and Sikkim – between their ground commanders. The sixth one was set up between Kongra La in north Sikkim and Khamba Dzong in Tibet in August last year

**THE TIMES OF INDIA**

**15th August**  
INDEPENDENCE DAY

**TOI STUDENT EDITION**

Every nation has a message to deliver, a mission to fulfill, a destiny to reach. The mission of India has been to guide humanity. – Swami Vivekananda

**It's time to celebrate the birth of a nation and relive the journey of India in the last 75 years. We celebrate**

THE PEOPLE WHO HELPED DEFINE INDIA  
POLITICAL EVENTS THAT CHANGED THE COURSE OF OUR COUNTRY  
EVENTS THAT BUILT OUR ECONOMY  
WRITERS WHO GAVE US SOME FOOD FOR THOUGHT  
FILMMAKERS WHO PROVIDED A VISION OF INDIA  
SCIENTISTS WHO DREAMED UP A FUTURE  
SPORTSPERSONS WHO GAVE US MUCH TO CHEER  
INCIDENTS, POLICIES, LAWS THAT SHAPED INDIA  
CHARTING THE MAKING OF INDIA  
INSTITUTIONS THAT HELPED IN THE RISE OF THE SCIENTIFIC INDIA

**PLUS: » Art Activities » Your Voices » Your Words » Opinions » AND MORE...**

**ISSUE DATE**  
12th August 2022

**PRESENTING INDIA 75 years milestones**

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**TIRANGA TALK**  
What do you think makes India strong as saffron, peaceful as white and prosperous as green? Log on toistudent.com and share in Your Corner section

**CELEBRATING A NEW INDIA EVERYDAY**  
We share extraordinary stories of people who make our nation great

## Geography

# 'DERECHO' STORM

## When sky turned green in few US states



'Derecho Storm System' hit the states of Minnesota, Nebraska, and Illinois, in the United States recently. As the Derecho Storm System reached these states, speed of winds reached to around 140 km per hour.



## ACTIVITY

■ Ask students to mark the areas on a map where the phenomenon has been seen:  
a) Central and eastern parts of US b) Russia  
c) Germany d) Finland e) Bulgaria f) Poland

**TEACHER PROMPT:** Show videos on Derecho and explain, **'WHY DID THE SKY TURN GREEN?'** Here's the answer. According to a report in Washington Post, the big raindrops and hail scatter away all but the blue wavelengths due to which primarily blue light penetrates below the storm cloud. This blue then combines with the yellow of the afternoon or the evening sun to produce the green sky.

**TYPES OF DERECHO:** Derechos are classified into three categories:  
**PROGRESSIVE DERECHO:** It is a summer phenomenon and related to short line thunderstorms that travel for hundreds of miles, across a relatively narrow path.  
**SERIAL DERECHO:** It commonly occurs during spring or fall. It has a wide and long squall line, which sweeps over large area.  
**HYBRID DERECHO:** It has the features of progressive as well as serial derechos.



Residents of South Dakota were left surprised when they witnessed a celestial phenomenon a few days back – green coloured sky that looked like a scene from a sleek sci-fi movie. People captured incredible pictures and shared them on various social media platforms.



Peter Rogers, a meteorologist with the Weather Service's office in Sioux Falls told New York Times, "I think it caught a lot of people's attention because the sky did have that very unique green colour to it"

## What is this rare phenomenon?

- As per National Weather Service of United States, derecho is a widespread, long-lived, straight-line windstorm. It is related to the "band of fast-moving showers or thunderstorms". Its name has been derived from Spanish word 'la derecha' meaning 'straight' in English. Straight-line storms can be defined as the thunderstorm winds having no rotation.
- Derecho is a warm-weather phenomenon. It generally occurs during summertime starting May, and mostly hits in June or July. It is a rare phenomenon, as opposed to other storm systems like tornadoes or hurricanes.
- Skies turn green when light interacts with huge amount of water held by the air, during severe thunderstorms.
- Derecho commonly occurs in the central and eastern parts of United States.

# LESSONS FROM THE WORLD

As students, while it is important to know about what's happening around the world, what is more essential is to have an in-depth perspective of events that will help you build your skill sets. Be it political, social, economic, climatic events, Times NIE presents you handpicked, curated news that will be of help to you in the classroom and give you an edge over others

## Space Science

## DR HASHIMA HASAN & her World Wide 'Webb'

Growing up in newly-independent India, Lucknow-born Hashima Hasan dreamt of being a space explorer from the time her grandmother gathered the whole family at their home in Hazratganj early one morning to see the Russian Sputnik satellite pass overhead.

When NASA landed a man on the moon a few years later, she promised herself that one day she would work for the space agency. By the time she was 10, she had met Yuri Gagarin, the Soviet pilot and cosmonaut who became the first human to journey into outer space, when he visited India. She would later meet Valentina Tereshkova, the first woman in space, and the silk scarf the Russian gifted her remains one of her prized possessions. Recently, the Indian-American space scientist, who made it to NASA in 1985



## NEWSMAKER

via Oxford University (PhD in theoretical physics, received some of the biggest accolades in her life – recognition for her noteworthy work on the James Webb Space Telescope as its

Deputy Program Scientist. Hasan shines thanks to her problem solving approach as a program scientist for many of NASA's missions and exploratory programs.

When my school offered an opportunity for the most-talented girls to study science in high school, I worked to earn my chance. Women teachers were difficult to find; my classmates and I often taught ourselves by reading our text books and discussing amongst ourselves. I taught myself mathematics from my brother's textbooks to qualify for college. Girls were treated with awe at the University, particularly those who excelled in Mathematics.

Dr Hashima Hasan



- Ask students to list the differences between Hubble Space Telescope and James Webb Telescope.
- Ask them to make a telescope at home
- Encourage students to make a journal of the night sky and note down constellations, etc.

## Term Of THE fortnight

### Unparliamentary words

■ Amid the row over the questioning of the Lok Sabha secretariat by the Opposition over words listed as "unparliamentary", sources in the Lower House clarified that such removal of words has been taking place since 1954 under various political dispensations. Usage of words such as 'corruption', 'corrupt', 'Jumlaajeevi', 'dictator' and 'Khalistani' are a few among those listed.



### WHO IS THE ONLY INDIAN WOMAN TO WIN BACK-TO-BACK OLYMPIC MEDALS?

- CLUE 1:** She's the first Indian, male or female, to win a gold medal at the world championships.
- CLUE 2:** She's currently ranked seventh in the world.
- CLUE 3:** After her first Olympic medal, Sachin Tendulkar gifted her a car. **ANS:** PV Sindhu

## Identify the logo



Logo on a 1953 Ferrari 375 MM Spider by Scaglietti, estimated to auction for 8 to 10 million dollars, is on display at the Monterey sale. This is the biggest car auction of the year, at Sotheby's in New York

## OBSERVE AND DISCUSS

- The Lion Capital was erected in Sarnath 250 BC. Buddha gave his first sermon at Sarnath, Uttar Pradesh. It was excavated by Friedrich Oscar Oertel in 1905. Initiate a discussion on Sarnath.
- The emblem has four lions mounted back to back on a circular abacus, facing four different directions. What do you think they represent?



**TEACHER PROMPT:** What are the thoughts that come to your mind when you look at the engravings on the National Emblem?

## Political Science

## Decoding the journey OF NAT'L EMBLEM



Wife of late Dinanath Bhargava, Prabha Bhargava, with the painting of the National Emblem, which was sketched by the late artist at their Anand Nagar house in Indore

Opposition members and activists recently accused the government of distorting the national emblem by replacing the "graceful and regally confident" Ashoka Lions with those having menacing and aggressive posture and sought immediate change. Here's everything you need to know about our National Emblem.

## THE NATIONAL EMBLEM

was adopted from the Lion Capital of one of the Ashoka Pillars on January 26, 1950.  
■ The symbol was adopted along with the motto 'Satyameva Jayate', taken from the **MUNDAKA UPANISHAD** and meaning "truth always wins".

■ **BADRUDDIN TYABJI**, a civil services officer and a freedom fighter, and his wife Surayya Tyabji proposed the usage of the Lion Capital for the same.

■ When the Constitution was being drafted, **DINANATH BHARGAVA** was selected to design the National Emblem. Under the mentorship of Nandalal Bose, who designed the illustrations in the document, Bhargava sketched the Emblem on the first page of the Constitution.

