



THE TIMES OF INDIA

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TODAY'S EDITION

➤ How to make history subject interesting?
➤ How to prepare for online exams?
PAGE 2



➤ How introvert parents can nurture their extrovert kids?
➤ Tips to stay stress-free
PAGE 3



➤ Can RCB lift their maiden IPL trophy?
➤ Quiz on Gayle
PAGE 4



STUDENT EDITION

FRIDAY, NOVEMBER 6, 2020



WEB EDITION

CLICK HERE: PAGE 1 AND 2

1 Brazil's National Institute of Space Research (INPE) has recorded 17,326 fires in the Amazon in October, more than double the number seen in the same month in 2019

2 The INPE has detected almost 3,000 individual fires in the Pantanal, a new monthly-record since data collection began in 1998

3 From January 1 to October 16, 2020, there were 45,939 wildfires in the US compared with 43,509 wildfires in the same period in 2019, according to the National Interagency Fire Center, US. About 8.3 million acres have been destroyed so far in 2020, compared with 4.5 million acres in 2019. Six of the top 20 largest California wildfires fires occurred in 2020, according to CalFire's list

4 As 2020 began, record-breaking wildfires had already engulfed regions of Australia, eventually scorching more than 65,000 square miles

Photo: AFP



From California to Alaska to Australia, wildfires around the world are getting worse. Experts predict that in a warming world, devastating wildfires like the ones burning now will be even more common. In fact, latest studies show that apart from becoming more frequent, climate change will likely make such blazes more destructive, affecting our environment, health and economy.

IN FOCUS

WHAT ARE WILDFIRES?

A wildfire is an uncontrolled fire that burns in the wildland vegetation, often in rural areas. They can start with a natural occurrence—such as a lightning strike—or a human-made spark. However, it is often the weather conditions that determine how much a wildfire grows. Wind and high temperatures can fuel fire.

THE IMPACT

Globally, wildfires have many impacts on humans, wildlife and the economy. Wildfires are a major driver of greenhouse gas emissions and are also responsible for 5-8% of the 3.3 million annual premature deaths from poor air quality, research suggests

CLIMATE CHANGE & WILDFIRE CONNECTION

1 According to researchers, one of the most important ways that climate change is increasing the risk of severe fires is by causing vegetation to dry out. When temperatures are warmer than average, rates of evaporation increase, causing moisture to be drawn out from plants on the land. This drying can create "tinderbox conditions" — meaning, if a fire is sparked, it can spread very quickly over large areas. Such conditions occurred during the 2018 northern hemisphere heatwave, which saw all-time temperature records broken across Europe, North America and Asia

2 Sustained hot temperatures and warmer than average temperatures are also likely to be the primary driver of bushfires. Apart from making fires more severe, warming temperatures are also making fire seasons longer in some regions

3 Peatland draining in some countries are also responsible for wildfires. To grow palm oil and other crops, such as timber, peatlands are often drained of their natural moisture — leaving them dry and likely to catch fire

Spotlight

RAFAEL NADAL EARNS HIS 1,000TH WIN IN AN EMPTY AND SILENT STADIUM

Becoming only the fourth man to reach 1,000 match wins should have drawn deafening cheers and a standing ovation for tennis great Rafael Nadal. Instead, he reached his milestone amid a cathedral-like silence on Wednesday in a 20,000-seater stadium left completely empty because of the coronavirus pandemic. There was only a fist-bump from Feliciano Lopez, after Nadal beat him.

Nadal joins Jimmy Connors (1,274), Roger Federer (1,242) and Ivan Lendl (1,068) in the men's 1,000-club members, since the Open era began in 1968



➤ The 34-year-old's first win came in May 2002 at the age of 15, when he beat Paraguayan Ramon Delgado in the first round at Mallorca
➤ A year later, the 16-year-old Nadal stunned the tennis world by beating French Open champion Albert Costa under floodlights in the second round at the Monte Carlo Masters
➤ By the age of 24, he had already reached 500 wins. His career tally also includes 35 Masters titles and 86 tournament victories overall

BIDEN BREAKS OBAMA RECORD FOR MOST VOTES

Democratic presidential nominee Joe Biden has received the most votes for any presidential candidate in the US history. With more than 72 million votes so far, Biden has broken the record previously set by former President Barack Obama, who had received about 69.5 million votes in 2008



VIEWPOINT

TENDULKAR URGES ICC TO MAKE HELMETS MUST FOR BATSMEN

Batting legend Sachin Tendulkar has urged cricket's world body to make helmets "mandatory" for batsmen at all times during a match. Tendulkar was reacting to an IPL incident when Sunrisers Hyderabad batsman Vijay Shankar took a blow on the helmet by a throw from Kings XI Punjab's Nicholas Pooran. "The game has become faster but is it getting safer? Recently, we witnessed an incident, which could've been nasty," Tendulkar wrote on Twitter. "Be it a spinner or a pacer, wearing a HELMET should be MANDATORY for batsmen at professional levels. Request @icc to take this up on priority," he tweeted.



Batsmen usually wear a helmet when facing a fast bowler but take the head gear off when a spinner comes on to bowl. Shankar fell to the ground after taking the hit but escaped injury in the IPL league game last month

➤ Head injuries in the game were back in focus after Australian batsman Phil Hughes' tragic death in 2014 due to a hit on the neck just below the helmet. Former Australia batsman Phil Hughes died two days after being hit in the neck by a bouncer during a Sheffield Shield game in Sydney
➤ The International Cricket Council (ICC) has since improved helmet standards, with equipment companies adding extra protection in the neck area to prevent serious injuries

PLAYERS REACT

Why not make helmet compulsory for wicketkeepers (standing up), batsmen, short leg-silly point fielders and both the umpires? Safety is also important!" PRAGYAN OJHA, Former left-arm spinner



"You are dead right, @sachin_rt. Wearing of helmets should be mandatory at all levels" Ravi Shastri, INDIA'S COACH

Q Should helmets be made compulsory for batsmen?

Share your views at toinie175@gmail.com You can also post your comments at toistudent.com

WHATSAPP LAUNCHES STORE MANAGEMENT TOOL TO HELP USERS IDENTIFY, REVIEW, DELETE CONTENT

TECH BUZZ

Facebook-owned instant messaging application WhatsApp has redesigned its storage management tool to make the platform more useful for people to easily identify, review and delete bulk content that may be acquiring more space on their phones.

- The tech giant now offers easy clean-up suggestions by bucketing both large files and media that has been forwarded many times, sorting files according to size in descending order, and by providing a way to preview files before deleting them
- The new update also allows users to see a preview of media before selecting one or multiple items to delete
- Users can navigate to the new tool by going to settings, followed by storage and data, and access the manage storage option

NEWS IN BRIEF

SCIENTISTS DISCOVER NEW MINERAL IN MOON METEORITE

A team of European researchers has discovered a new high-pressure mineral named donwilhelmsite in the lunar meteorite Oued Awlitis 001. This new mineral from the Moon could explain what happens in the Earth's mantle.



The mineral was named in honour of lunar geologist Don Wilhelms, an American scientist, who was involved in landing site selection and data analyses of the Apollo space missions that brought to Earth the first rock samples from the Moon

DID YOU KNOW?

- Donwilhelmsite is mainly composed of calcium, aluminum, silicon, and oxygen atoms
- It was discovered within the shock melt zones of the lunar meteorite Oued Awlitis 001, which was found in 2014 in Western Sahara
- This meteorite is compositionally similar to rocks comprising the Earth's continents
- Eroded sediments from these continents are transported by wind and rivers to the oceans, and into the Earth's mantle as part of the dense oceanic crust



Quote unquote

The Covid-19 pandemic has already shown that rapid change is possible, as millions of people adopt new ways of working, learning and socialising. As we recover, we cannot go back to the failed frameworks and systems that created the fragilities and inequalities that are being exploited by the pandemic. We must build our future better. The recovery from this pandemic must prioritise resilient, inclusive and accountable institutions that try to foster the rule of law, good governance, gender equality, environmental sustainability, and human rights

AMINA MOHAMMED, Deputy secretary general, UN

Heard of 'Smartphone Pinky'?

No, it's not your next door neighbour's daughter's name. According to physicians, smartphone pinky is a condition that leads to a dent in the pinky finger of smartphone users, who are addicted to it. Experts say, this deformity happens due to the faulty way people hold their phones.

But is smartphone pinky a real thing? Pharmacist Pareena Patel says, "While there is no clinical evidence yet to suggest that smartphones can damage our pinkies specifically nor is it an official medical condition, there are reasons to believe that excessive phone use can impact our muscular function and may damage our joints, particularly in the thumb and wrist area."

HERE ARE SOME WAYS TO REDUCE THE RISK OF YOUR PHONE CAUSING ACHES OR INJURIES...

GENTLE HAND EXERCISES

1 Patel says, "If you are experiencing problems in your fingers, there are some gentle exercises you can do to help stretch your muscles. One of

these exercises include a 'finger curl'. For this exercise, you simply need to clench your hand into a fist, followed by gently releasing and stretching out the fingers. This can be repeated up to five times a day, with a repetition of five each time."



SWITCH OFF

2 "This is the most obvious, but detoxing the use of your smartphone may help reduce any pain your hands are experiencing. You should try and set time for not using your phone. You could also try and place your phone flat on a surface ahead of you to avoid the urge to grasp it with your hand and curl your fingers round," Patel adds.

JOB 'WHALE' DONE

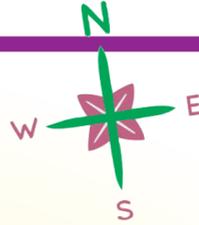


A metro train was saved from disaster recently, when it smashed through a safety barrier but was prevented from plummeting into water by a sculpture of a whale tail. The driver of the train, the only person on board, was unharmed in the incident, which happened just after midnight at Spijkenisse, near the port city of Rotterdam in the Netherlands. The front carriage was left hanging 10 metres above the water, propped up only by the giant silver-coloured sculpture, called, 'Saved by the Whale's Tail.'

Social Studies encompasses the study of our past, the economic conditions, the political system, and society we live in. During these difficult times of lockdown, the role of a social science teacher is even more laborious as he/she has to create a learning environment for the students to be able to think, function, and to find real-life experiences between oneself and events and people from the past, present and future.

We can break down the types of subjects and different techniques can be used during the online classes to not only make it interactive but also to draw their interest.

FOR A BETTER UNDERSTANDING of Social Studies



GEOGRAPHY

It is all about learning and understanding the principles and phenomena that affect our everyday life. Acronyms and associated learning techniques can be used. Acronyms such as PAISA can be used to learn the names of the ocean. Children can create a few of their own and encouraged to find some new strategies to overcome their learning difficulties and bring it to the classroom.

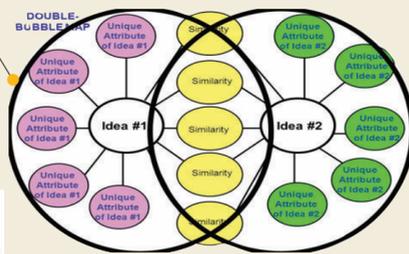


HISTORY

History highlights the key occurrence of the past. Children can be encouraged to use different kinds of thinking maps for better learning and understanding of this subject. These include :

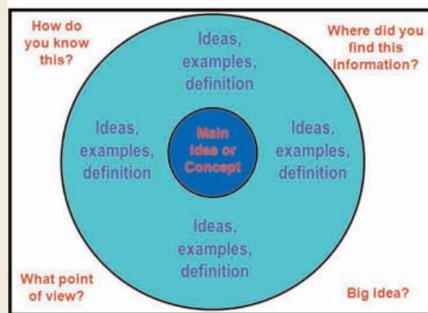
DOUBLE BUBBLE MAP

Is a tool for comparing and contrasting things. This may include individuals, events, places, ideas among others. It begins with two adjacent central bubbles in which the two ideas are written.



CIRCLE MAP

Thinking Skill: Defining in Context & Brainstorming



BUBBLE MAP

Is when visual variable of sizes are used to display differences in the magnitude of a certain changing phenomenon.

BRACE MAP

Helps identify whole and part relationships. It is used for something concrete that can be broken into components or subparts.

A TIMELINE WITH A TWIST

The children can make a digital timeline using different visuals to help them remember the events better and in chronological order.

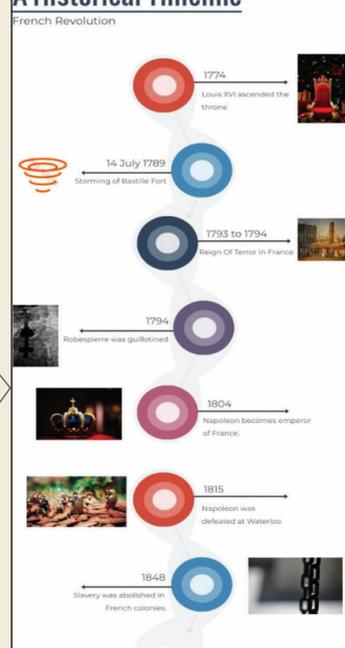
SHAPES & EVENTS

New shapes other than the regular ones can be used, such as a clock to put up events from 1 to 12.

COMMON CHILDHOOD GAME

Name /Place/ Animal / Thing can be played by changing a few of the headings as per the content learned.

A Historical Timeline



CIVICS

This subject revolves around the system of the world around us and the kind of role that we play being in the system. At our school, we initiated a Zebur News Channel and encouraged children to be a part of it where they bring in the latest updates and stay connected to what is happening in the world. Online quizzes are not only conducted by the students but also created by them using apps. Video-making using app also helps the students work in groups and grasp the content.

ALWAYS REINVENTING

There are many components that go into making a positive learning environment for students. By implementing such techniques, we can help them be enthusiastic and optimistic learners which will foster improved academic performance. Learning is a process and marks are just a by-product. So, let's focus on that.

Jaskiran Sidhu,
Educator, Zebur School
For Children,
Ahmedabad

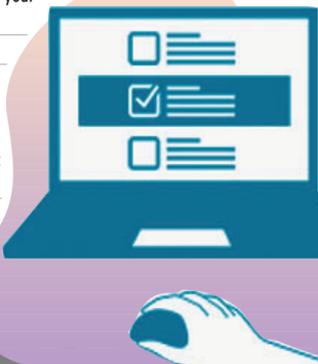


Getting set for online exams during 'new normal'

Online exams demand a higher degree of focus as there is no human interface and no extra time permitted. Even if children can access textbooks, notes or other resources during exam, they will not get time to look at them. Here are some ways to reduce 'exam stress.'

- Say NO to rote learning.
- Discuss what you learnt with your peers.
- Ensure you take a short break after every hour to keep your brain from overworking.
- Meditation and physical exercise improve your concentration power.
- Keep away from social media.
- Always be positive and believe in yourself
- Read and understand the test guidelines
- Check your device or gadget and internet connectivity
- Do not lose your cool in case of a technical glitch.
- Prepare well and be familiar with the course content.
- Use time judiciously

Renjini V R, TGT Hindi, Army Public School, Thiruvananthapuram



MY SCHOOL PROJECT

SMART WALKING STICK

WHAT IS IT?

- It is a stick which helps the visually impaired people to walk.

SALIENT FEATURES

- If any obstacle appears approximately 1-2 metres in front of the person using the stick, a sound or a beep is generated by the speaker inbuilt in it.
- As the obstacle gets closer, the stick emits a louder and sharper sound.
- The volume of the beep and the height of the stick are adjustable as per the convenience of the user.
- It can also be used in rainy season also as the circuit board and sensor are covered in a plastic case.



HOW I WENT ABOUT IT

- There was a survey in 2010 stating that about 85 million people are visually impaired in the world. I felt I should do something to help them.
- There is a readymade kit available consisting of a sensor, a circuit board and a speaker. I bought it and attached these (put inside a plastic case with a hole for the sensor) to the stick.
- The sensor senses the obstacle and passes on the signal to the circuit. The circuit amplifies the signal and sends it to the speaker; the speaker emits the beep.

Surabhi Raut,
class X,
NES National
Public School,
Mulund



MCQs: PHYSICS

1 A cell supplies a current of 0.9 A through a $2\ \Omega$ resistor and current of 0.3A through a $7\ \Omega$ resistor. Then the internal resistance of the cell is :
a) $0.5\ \Omega$ b) $1\ \Omega$ c) $1.2\ \Omega$ d) $2\ \Omega$

2 The strength of the magnetic field at a point r near a long straight current carrying wire is B . The field at a distance r/2 will be:
a) B/2 b) B/4 c) 4B d) 2B

3 What is the percentage error in the measurement of time period of a pendulum if the maximum errors in the measurement of l and g

are 2% and 4 % respectively?
a) 6% b) 4% c) 3% d) 5%



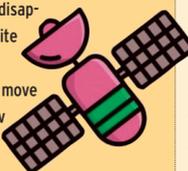
4 Speeds of two identical cars are u and 4u respectively at a specific instant. The ratio of the respective distances at which the two cars are stopped from that instant is :
a) 1:1 b) 1:4 c) 1:8 d) 1: 16

5 If water falls from a dam into a turbine wheel 19.6 m below then

the velocity of the water at the turbine is:
a) $9.8\ \text{ms}^{-1}$ b) $19.6\ \text{ms}^{-1}$ c) $39.2\ \text{ms}^{-1}$ d) $98.6\ \text{ms}^{-1}$

6 A satellite of the earth is revolving in a circular orbit with a uniform speed v . If the gravitational force suddenly disappears the satellite will :

a) Continues to move with a velocity v along the orig-



inal orbit
b) Move with a velocity v tangentially to the original orbit
c) Fall down with increasing velocity
d) Ultimately come down to rest somewhere on the original orbit.

7 The self-inductance of the motor of an electric fan is 10 H. In order to impart maximum power at 50 Hz it should be connected to a capacitance of
a) $4\ \mu\text{F}$ b) $8\ \mu\text{F}$
c) $1\ \mu\text{F}$ d) $2\ \mu\text{F}$

8 A rectangular vessel when full of water takes 10 min to be emptied through an orifice in its bottom. How much time will it take to be filled when it is half filled with water?
a) 9 min b) 7 min c) 5 min d) 3 min



9 Consider an n-p-n transistor amplifier in common emitter configuration. The current gain of the transistor is 100. If the collector current changes by 2 mA. What will be the change in emitter current?

a) 2 mA b) 1.2 mA c) 2.02 mA d) 2.2 mA

10 The intensity ratio of maxima and minima in an interference pattern produced by two coherent sources of light is 9:1 . The intensity of the used light sources are in the ratio:
a) 3:1 b) 4:1 c) 10:1 d) 9:2

ANSWER KEY

1. a) 4) d) 7) c) 10) b)
2. d) 5) b) 8) b)
3. c) 6) b) 9) c)

G Revathy, teacher,
Air Force School, Hebbal, Bengaluru