**CLICK HERE: WWW.TOISTUDENT.COM** 

## STUDENT EDITION

WEDNESDAY, JUNE 24, 2020



#### **WEB EDITION**

\ . difficult problem; an requiring resolution or resolving an instrument.

Check out Facebook and



Penguin Random House India has readers, teenagers, parents, teachers and writers, access to resources that will shape their minds and host exciting and fun content about books pub-

unsolved question; an essential point outcome; a main or central feature (as of an argument).In Latin, crux referred literally to an instrument of torture, often a cross or stake, and figuratively to the torture and misery inflicted by means of such an

#### **IRECOMMEND**



Penguinsters on Instagram



launched a social media page on Facebook and Instagram called Penguinsters, especially for young and book lovers. This platform will give readers an opportunity to explore some of the greatest books lished by the three imprints of the children's division: Puffin, Penguin and Duckbill Books.

## **BOOK REVIEW**

THE STORY OF **SCIENCE** by Joy Hakim

A three-book series, 'The Story of Science', follows the evolution of scientific thought. The

author takes

# Apple WWDC 2020 begins: iOS 14, iPadOS 14 and watchOS 7 come with next-gen features

On the first day of the four-day event on Monday, the iPhone-maker introduced a host of software updates to the Apple ecosystem - iOS 14, iPadOS 14 and WatchOS7, MacOS and tvOS

**IOS 14:** The next version will release later this year. The home screen will come with widgets. After installing iOS 14, users can pin or drag the widgets like a calendar and maps on the home screen. Apple users can also create a Smart Stack of widgets, which will use on-device intelligence to surface the right widget based on time, location, and activity.

**IPADOS 14:** Apple previewed the all-new iPadOS 14 with a new compact design for incoming FaceTime and phone calls, Siri interactions, and Search to help users stay focused on the on the task at hand.

# additional workout types, including dance, and a new hearing health feature.

WATCHOS7: The new watchOS7 will deliver en-

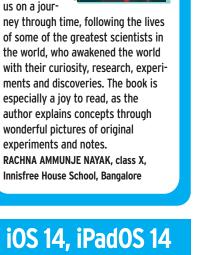
hanced customisation tools and powerful new

health and fitness features to Apple Watch. The

smartwatch will come with new watch face

configurations and health features, like sleep

tracking, automatic handwashing detection,



# A'SUN CLOCK to predict when the sun will WAKE from

#### How it works

The sun clock uses the daily sunspot number record available since 1818 to map solar activityover 18 solar cycles to a standardised 11 year cycle or 'clock.' No two solar cycles are the same, but using a mathematical technique, known as the Hilbert transform, the researchers were able to standardise the solar ac-

tivity cycle for the first time. The clock revealed that the transitions between quiet and active periods in solar activity are sharp. Once the clock is constructed from sunspot observations, it can be used for observations of solar activity and space weather.

## What is a solar cycle?

Our sun, which is a huge ball of electrically-charged hot gas, generates a powerful magnetic field and goes through a cycle. This cycle is called the solar cycle.

# What is the time period

of this cycle?
This cycle lasts 11 years on an average. Every 11 years or so, the sun's magnetic field completely flips. This means that the sun's north and south poles switch places. Then it takes about another 11 years for the

sun's north and south poles to flip back again.

What are sunspots? Sunspots are dark, cooler areas on the sun's surface. They are more



## How can solar cycles be

> One way to track the solar cycle is by counting the number of sunspots. The beginning of a solar cycle is a solar minimum, or when the sun has the least sunspots. Over time, solar activity and the number of sunspots increases.

The middle of the solar cycle is the solar maximum, or when the sun has the most sunspots. As the cycle ends, it fades back to the solar minimum, and then a new cycle begins.

#### WHY SUN CLOCK IS IMPORTANT

for solar storms is highest,

of space weather on our

space infrastructure

and help to plan the impacts

Scientists have devised a new sun clock that will help them to know the switch on and off periods of high solar activity. In other words, the clock will help scientists to determine more precisely when the risk

■The sun clock will help in predicting when the solar activity is set to increase, which in turn could potentially protect astronauts in the orbit. It will also help in preventing technologies like satellites, computers, power grid and aviation technology from being destroyed.

ODID YOU Extreme space weather or solar storms occur when the sun shoots out boiling-hot plasma in the form of solar flares and winds. Although most solar storms are usually harmless, a large one hitting the Earth could have catastrophic effects

n a first, scientists have launched

interactive maps of Zealandia, a

continent which is 94 per cent

submerged underwater. Located in

the south of the Pacific Ocean,the

maps show the bathymetry—the

study of underwater depth of ocean

loors, and the tectonic origin of the

continent. It covers about 5 million

square kilometres areas, where New

Zealand and some island territories

of the South Pacific, such as New Cale-

donia, is located.

> According to previous researches, the continent of Zealandia

of Gondwana, 85 million years ago during the dinosaur era.

floor were formed. > The continent's geology, consisting of

granite, sedimentary and volcanic rocks, shows similarities to

Oceania and Antarctica. > In 2017, after years of debate, it was

concluded that Zealandia is an almost entirely submerged conti-

nent rather than a micro-continent or a continental fragment, as

was formed after breaking away from the former super-continent

> During this process of separation, which ended with the near-

total collapse of Zealandia, some of the deepest pits on the ocean

**SCIENTISTS MAP SUBMERGED CONTINENT** 

OF ZEALANDIA FOR THE 1ST TIME

Zealandia

#### **INDIA'S FIRST COVID-19 DRUG FABIFLU LAUNCHED**

ral drug Favipiravir for treat-lator's approval.

lenmark Pharma- ment of mild-to-moderate has Covid-19 cases, after it relaunched an antivi- ceived the Indian drug regu-

#### **BREAKTHROUGH** ➤ It will be available under

the brand name FabiFlu as a prescription-based medication for ₹ 103 per tablet, with a recommended dose of 1,800 mg twice a day on day 1 and 800 mg twice a day up to 14th day, according to the

Mumbai-headquartered global pharmaceutical company. ➤ Favipiravir could be used for Covid-19 patients with comorbid conditions, like diabetes and heart disease, the company said. It would offer rapid reduction in viral load within four days, and faster symptomatic and radiological improvement, the company added.

#### **RATAN TATA URGES ONLINE COMMUNITY** TO PUT A PAUSE ON HATE, BULLYING

020 has been a year full of challenges and ups and downs. With the Covid-19 pandemic wreaking havoc on the economy—lay-offs and pay cuts becoming the order of the day, industrialist and philanthropist Ratan Tata, recently took to Instagram, urging people to support one another instead of being hurtful.

## **CELEB TALK**

This year has been full of challenges for everyone on some level or the other. I see online community being hurtful to each other, bringing each other down, harshly, and with quick judgements. I believe

this year, specially, calls for all of us to be unified and helpful. It is not the time to pull each other down RATAN TATA, Chairman Emeritus, Tata group

#### **ITALY COVERS GLACIER WITH GIANT WHITE** SHEETS TO SLOW MELTING



Italy has begun the process of laying vast tarpaulin sheets to cover over 100,000 sq metres of the Presena glacier in Northern Italy to prevent it from melting due to reports, the six-week

team of researchers in process is repeated every year once the ski season is over and summer begins in full force. The coverings are geotextile tarpaulins that reflect sunlight, maintaining a temperature lower than the external to global warming. According one, and thus preserving as much snow as possible.

## YEMEN GUY BUILDS TALLEST 'EGG TOWER'

Yemen has just broken the world record for building the tallest stack of eggs ever, and getting it to stay for at least five seconds. Mohammad Muqbel, a resident of Kuala Lumpur in Malaysia, built a stack of three eggs that were stacked neatly, one on top of the other. According to The Khaleej Times, the feat was acknowledged at the Guinness World Records (GWR),

which said that the tower

made.

was indeed the "largest

stack of eggs" ever

According to GWR rules, the eggs had to be fresh IN THE RECORD BOOK

adhesive or strings could with many complimenting the boy's skills and patience

hens' eggs and no additional material, such as

be used to balance the eggs. The video went viral on social media, with address details. The top three

#### **ONLINE ORCHID COMPETITION TO CREATE AWARENESS** t a time when the

country is fighting the Covid-19 pandemic, the Orchid Soci ety of Assam (OSA) is geared up for a different battle — to create awareness and stop illegal trading of the exotic plants through a national level online competition, following the cancellation of the state's first ever orchid fes-

it was previously considered to be

tival in April, due to the pandemic. To participate in the competition, just click a

selfie with the orchids and

upload it on the official

Facebook page, Orchidophiles,

winners will get an award of ₹ 10,000, ₹ 7,000 and ₹ 5,000, respectively. A five-member jury will announce the top three winners on July 5. The last date to upload the entries



# Include yoga as part of online programmes: **Vice President**

ice President M Venkaiah Naidu has urged educational institutions to include yoga as part of online learning programmes that are being conducted in the wake of the Covid-19 pandemic to improve immunity. Addressing a digital yoga session organised by SPIC MACAY on Yoga Day, the VP said, children must be introduced to the ancient Indian technique at a young age.

## WHY YOGA

➤ Observing that the 5,000-year-old tradition is not a mere workout, Naidu said, "It is a science that emphasises balance, poise, grace, equanimity, peace and harmony".

➤ Various components of yoga, such as postures, breathing exercises and meditation techniques together help in bringing about a positive transformation in the human body and mind in innumerable ways, he said.

➤ Yoga as a mode of therapy or Yog Chikitsa has become extremely popular. He said that a large number of studies offer scientific evidence for its potential to treat a number of diseases.

> Yoga can be an effective solution for the high level of stress that the pandemic has created in our lives, he added.

Share your views at timesnie175@gmail.com/toinie175@gmail.com

# **ACTIVITY**

**GARDENING** 

Easy-to-grow veggies in your kitchen garden

ave you been thinking of growing some vegetables in your backyard or kitchen garden but don't

know how to go about it? There is a whole list of vegetables you can easily grow at home - without a gardener's help. Check this list and get going.

**Cucumber:** 

If your garden gets a lot of sunlight, cucumber is your best bet. This vegetable needs a lot of sun and it doesn't even take too much space as it grows vertically.

Disney released 'Artemis Fowl', a film based on author Eoin Colfer's book series by the same name that opened up a magical world of fairies, dwarves, and centaurs. Times NIE readers offer a review of the film; and why you must read the books

# **Has Disney failed Artemis Fowl?**

# **MOVIE VERDICT:** Lost the plot

he film version has determined to slaughtered the uniqueness of the book series and turned it into a good guy-bad guy cliché. They have placed characters and plot lines from different Artemis Fowl books in one place. The film has acquired lowest rating out of all Disney+ independent films released, with Rotten Tomatoes giving it 9 per cent. What didn't work for me? The knowledge of fairies was unknown to the movie-Artemis who found this information after his dad's disappearance; unlike book-Artemis who knew about the fairies and was

he story of a

12-year-old

who ran his

empire... what more

do you want? At first,

Artemis seems to be

However, throughout

the series his character

honest and trustworthy.

MATHEW KARTHIK SHELLY,

class X, Gregorian Public

This alone makes this

series a lovely read.

School, Ernakulam

cold and ruthless.

father's crime

crack their mys-ANUSHKA DETHA, XI,

**Jayshree Periwal Global** School, Jagatpura, Jaipur he Artemis Fowl books portrayed

humans as creatures whose basic desire was selfishness. The appeal of the character was that he was motivated by selfish desires but slowly redeemed himself. The movie, on the other hand, focuses on

friendship. Besides this, the care- which when deciphered all tofully sculpted universe that Eoin Colfer spent years creating is lost in the film. Each page of the books

gether reveal a short story. AARON MUKHOPADHYAY, class XII, NPS Koramangala, Bengaluru

rtemis is an evil

genius. But don't

judge. This book is

not just about a criminal

mastermind but also an

arrogant twelve-year-

**CHARUMATHI M, Class XII** 

old who changes.

SBOA Mat. Hr. Sec.

School, Chennai

The best answers will be printed here. Word limit: 100 words. **Email at** timesnie175@gmail.com

#### TRIVIA TIME

■ The film has been in development since 2001. Eoin Colfer has jokingly stated that the movie would be finished two years after he died.

■ Colin Farrell's involvement in the film wasn't announced until March 2020 - nearly a year and a half after

the teaser trailer. Artemis Fowl author Eoin Colfer has a cameo in the film. Colfer shot his

cameo in one day. "The only direction they gave was: Walk across the field and don't look at the camera. I have a new respect for actors." he said.

Alexander the Great

knot in one blow.

knot.

point

was later killed by an arrow

Example: Though he was a

good person, his short temper

allegedly cut the Gordian

Example: Mark has tamed

the mad elephant. I have

no idea how he did it, but

he sure cut the Gordian

Achilles' heel

**MEANING:** A weak-

ness or vulnerable

**ORIGIN:** The legend of

Achilles has it that he

was dipped into the river Styx

#### **CONTEST:**

We have a task **Bell peppers:** for you Fowl This grows well in warm fans out there. temperatures and a well-Watch the first drained soil that is rich in episode, then answer organic matter. Bell pepper the following question: tastes great in salads, cur-





ries, pasta etc.

#### Lettuce:

This one is a very fastgrowing vegetable that can tolerate shade and moderate temperatures too. It is ideal for small garden spaces.

#### **Beets:**

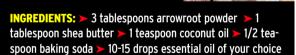
A hi-fibre veggie, beets are loaded with vitamins A and C. They grow from seeds and need loose soil. Plant them in summer as it grows well in warm months.



#### **LOCKDOWN DIY**

# **MAKE ORGANIC** DEODORANT

Now that you have more time due to partial or complete lockdown (depending on your area and city), try your hand at something you haven't done before like making an organic zero waste deodorant. Here's the DIY recipe:



HOW TO MAKE: 1. Take a microwave-safe bowl and put 1 tablespoon shea butter and 1 teaspoon coconut oil. 2. Microwave it for 40 seconds until both are liquid. 3. Add 3 tablespoons of arrowroot powder to the mixture with 1/2 teaspoon baking soda. Mix all the ingredients ensuring there are no lumps. Add 10-15 drops of any essential oil. Mix everything and transfer to an airtight container. 5 Freeze the container for 3-4 hours so that you get a creamy and textured deodorant that's easy to apply. Enjoy the

# BOOKS

#### THE ONE AND ONLY **BOB**

by Katherine Applegate In this seguel, Bob sets out on a dangerous journey in search of his long-lost sister. (Ages 8 +)



#### **BIG NATE** by Lincoln Peirce

Where Nate goes, trouble is sure to follow. (Ages 8 to 12)



#### LITTLE DREAMERS by Vashti Harriso

The inspirational true stories of 40 women creators. (Ages 8 to 12)



## **STAMPED**

by Jason Reynolds and Ibram X. Kendi An exploration of racism and anti-racism in America.



# **QUEEN'S PERIL**

Newly elected Queen Amidala prepares for a peaceful transition of power. (Ages 13 to 18)

but will a commoner steal

Hollis' heart? (Ages 13 to 17)





# **International School**

my temples when thinking because he made it look so 'cool'! JATIN YASHROY class XI, Singapore

ike Artemis, I

too got into the

habit of rubbing

t's the complete package - sci-fi, action, comedy, fantasy, adventure and a plethora of interesting new words that will add to your vocabulary. **BHAVYA GULATI, class** XII, Bhavan Vidyalaya, Panchkula

esides portraying the protagonist as a tween criminal genius, we meet interesting characters like Captain Holly Short, the fierce fairy and Butler, the bodyguard. Colfer's fairies have highly advanced technology that augments their magic. The science behind it is logical. MANJISTHA MAURYA, Class XII, La Martiniere Girls' College

# Phrases from Greek Mythology

**MEANING:** Dwell tediously on the same subject **ORIGIN:** In Greek mythology, harpies were birds with the heads of women who were winged spirits known for stealing Phineus' food. Harpy means that which snatches.

Example: Her daughter kept harping on about buying that toy but she did not budge.

#### **Beware of Greeks** bearing gifts

**MEANING:** Do not trust enemies who bring you presents they could very well be playing a trick.

**ORIGIN:** This phrase originates from the story of the wooden Troian horse, which was a gift by the Greeks to the Trojans in the story of the Aeneid. The Trojans thought that the horse

was a gift given as a peace offering to end a war. However, the Greeks hid soldiers inside the horse.

Example: A: "I can't believe the opposing team made us cupcakes before the big game!"

B: "Yeah, I'd beware of Greeks bearing gifts if I were

you."

Cut

## the Gordian knot

**ORIGIN:** The phrase alludes to Gordius, the king of Phrygia, who tied a knot that an oracle proclaimed would only be cut by

Mail at timesnie175@ gmail.com

**Exercise:** 

Can you think of

more phrases from

**Greek mythology?** 

**MEANING:** To solve a difficult problem in a very direct way by doing something forceful or

#### by his mother in order to make him immortal. His heel wasn't covered by the water and he

was his Achilles heel. KNOWLEDGE

BANK

wound to his heel.

## Queen Sago

Queen Sago or Cycas Circinalis, **PLANTS** is a species of cycad found in southern India and Sri Lanka. It resembles a palm with its feather-like leaves arranged in a rosette that crowns a single trunk. The solitary trunk can grow up

to 20 ft high. The dark green pinnate leaves with narrow foot long leaflets are used for decoration. The female plants produce large orange seeds in a cone-like struc-



ture located in the centre of the rosette of leaves. Queen sago is endemic to Western Ghats. The seedsconsidered poisonous-are used as food after cleaning, drying and powdering.

## **CURRICULUM EXERCISES**

Q1. How do you define momentum? **Q2.** Fill in the blanks:

chemical-free

freshness. TNN

A. The friction experienced by a body, when in motion, is known as\_ B. The velocity ratio in case of an inclined plane inclined at angle *theta* to the horizontal and weight being pulled up the inclined plane by vertical effort is \_

# following monument.

Q3. Identify the

Answer: (1) It is the quantity of motion of a moving body, measured as a product of its mass and velocity. (2) A) dynamic friction B) sin theta (3) Topkapi

# Quiz time

**CURRENT AFFAIRS** Q.1) Where is the US Pentagon

A. New York City B. Texas

C. Las Vegas D. Washington

Q.2) Who has been elected as the new President of Tunisia? A. Nabil Karoui B. Beji Caid C. Abidine Ben Ali D. Kais Saied

Q.3) The 2019 World Artistic **Gymnastics Championships** 

was organised in which country? A. Spain B. Germany

Q.4) Who has been named as the ambassadors for 'Bharat Ki Laxmi' by PM Modi?

A. P. V. Sindhu B. Deepika Padukone C. Geeta Phogat D. Both A and B

C. Japan D. Canada

## ANSWERS

1. D) Washington 2. D) Kais Saied 3. B) Germany 4. D) Both A and B