

THE TIMES OF INDIA

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THE FRIDAY BLOCKBUSTER!

Look forward to a **2-page weekender issue** coming to you this Friday!

Specially curated **activity sheets** by top players who will take you to the moon and back (that's the hint!)

DIYs that will test your learning skills and more

Your take on the week that was...in a column **dedicated to YOU!**

STUDENT EDITION

THURSDAY, APRIL 9, 2020



WEB EDITION

I RECOMMEND



APPS

TO HELP YOU READ

READING RAVEN

With Reading Raven, reading has never been easier. This app that's available on both the iPhone and iPad features a step-by-step curriculum which allows you to learn reading skills at your own pace.

MONTESSORI CROSSWORDS

The app is also ideal when it comes to helping one improve both their writing and spelling skills. This is available for free on android and iPhones.

MARBLEMINDS PHONICS

What you'll get from this app is that it gives more emphasis on sounds and the letters. Marbleminds Phonics teaches you all the fundamentals of reading.

BOB BOOKS READING

The interactive game called Bob Books Reading Magic Lite comes with a rather simple drag-and-drop interface that is ideal for you.

ONLINE GAMES TO PLAY

DOTA UNDERLORDS: This is an auto-chess game with chess-like features, but instead of black and white pieces, you place players on a grid which is shaped like a battlefield. These players then fight the opponent's players and try to win the battle. **AVAILABLE ON:** iOS, android and Microsoft Windows via Steam.

FOOTBALL PRO EVOLUTION SOCCER 2020: Want to get your football fix? Play alone or with others with their multi-player options, this game will keep you engaged in this lockdown. Arsenal, Manchester United, take your pick and get on the field. **AVAILABLE ON:** PlayStation 4, Android, Xbox One, Microsoft Windows, iOS.

Gearing up with BIO SUITS

India's premier defence research institution, DRDO, has developed a "bio suit" to protect doctors and paramedics engaged in treating coronavirus-affected people from the infection. This will act as Personal Protective Equipment (PPE) for the healthcare personnel, officials said.



Number game

Steps are being taken to produce at least 15,000 suits per day!

What it looks like

The scientists have applied their technical know-how and expertise in textile, coating and nanotechnology to develop the PPE, having specific type of fabric with coating. The current production capacity of the suit is 7,000 units per day. The DRDO has

prepared a special sealant as an alternative to seam sealing tape based on the sealant used in submarine applications. The suit is equipped to prevent the front line staff from any harm while dealing with the samples.

JK ROWLING shares BREATHING TECHNIQUE with fans



Harry Potter's author JK Rowling, recently said she had recovered from a suspected case of Covid-19 after two weeks of illness. "For last 2 weeks I've had all symptoms of C19 (though haven't been tested)," Rowling said on her Twitter account. She shared a video of a breathing technique that she said had helped her manage her worst symptoms and had been recommended by her husband, who is a doctor

THE TECHNIQUE:

- 1 Take five deep breaths in, each time holding the breath for five seconds.
- 2 On the sixth deep breath, take it in and do a big cough (covering your mouth, obviously)
- 3 Do two cycles of the above and lay flat on your front taking slightly deeper "normal" breaths for the next 10 minutes.

in the UK. "I have recovered and wanted to share a technique that's recommended by doctors, costs nothing, has no side effects but could help you/your loved ones a lot, as it did me," she added.

PET TALES IN THE TIME OF CORONAVIRUS

Furry friends in HK

A pet dog in Hong Kong contracted a "low-level" COVID-19 infection from its owner. Experts from the University of Hong Kong, City University and the World Organisation for Animal Health "unanimously agreed" that the test results reflected a plausible case of human-to-animal transmission. The dog was quarantined but it passed away few days after being released.



its owner was confirmed as being infected. The dog was sent for quarantine too.

Tiger in NYC Zoo tests positive

Nadia, a 4-year-old Malayan tiger in the Bronx Zoo of New York, tested positive for coronavirus. She was screened after developing a dry cough along with three other tigers and three lions.

WHO has said that pets don't give you coronavirus. But it can be transmitted from humans to animals in some cases, so maintain social distancing with your pets too!

A German Shepherd living in the Pok Fu Lam area in Hong Kong also repeatedly tested positive for the Covid-19 virus after



DID YOU KNOW

What's an EPIDEMIC HOTSPOT

DOES IT HELP

WHAT: PM Narendra Modi has directed states during his video call with the chief ministers to identify the Covid-19 "hotspots" and encircle them.

WHY: Hotspot have been described as "areas of elevated incidence or prevalence, higher transmission efficiency or risk, or higher probability of disease emergence." In terms of area, it can be as small as less than half-a-square kilometre and even as large as a country.

HOW: Researchers point to a variety of factors that lead to the creation of a transmission hotspot. They recommend classifying hotspots into "burden hotspot," "transmission hotspot," and "emergence hotspot".

Researchers of Johns Hopkins Hospital argue against the utility of targeting of hotspots, saying that by the time any intervention happens, the disease would have run its course and infected almost the entire population. They advocate that efforts to contain the disease should target the non-hotspot areas instead. However, the health ministry of India, has said that even an area with one infected person could be classified as a hotspot if it feels that there's a chance of a wider spread of Covid-19

CONTINUE YOUR SCIENCE LEARNING



What does culinary science have in common with pancakes? The California Science Center will help you find out. This website has a video series 'Stuck At Home Science' which has super creative experiments that you can do at home using household stuff. **All you have to do is watch the video, then download their activity guide.** **ACCESS:** www.californiasciencecenter.org, click on Stuck at Home Science

POLISH YOUR PHOTOGRAPHY SKILLS

Nikon is offering free online photography classes for all until April 30. The 10 classes are taught by professional photographers and covers photography basics, fundamentals of photography, environmental portraiture, making music videos and more. **ACCESS:** www.nikonevents.com

The Best Things In Life Are Free

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Whether you want to swim with African penguins in San Diego or explore the Secret Annex at The Anne Frank House in the Netherlands or make a model of coronavirus at home, the internet is full of unique things that you can do. Here are a few interesting ways to explore your world from the comfort of your home...

Get started now

VISIT A MUSEUM

The museums are opening up their virtual doors. You could explore the Museo Nacional Thyssen-Bornemisza (Spain), which is home to the second-largest private collection of art; join a curator-led tour at The National Museum of Modern and Contemporary Art (Korea); visit the Secret Annex at The Anne Frank House (Netherlands)... **ACCESS:** www.museothyssen.org/en; www.mmca.go.kr; www.annefrank.org;

GO WILD AT THE ZOO

A number of zoos and aquariums in the US are now offering live-streams of their cutest inhabitants. From the leafcutter ants to help forests; from pandas to jellyfish, sharks, penguins... watch wildlings chill out amidst a pandemic. And if that's not your jam, a farm in Indiana is giving fans even more views of baby goats living their adorable lives. Also let the jellyfish drift serenely through water melt your stress away. **ACCESS:** animals.sandiegozoo.org > live-cams; www.goatmilkstuff.com; www.montereybayaquarium.org/animals/live-cams; www.aquariumofpacific.org/exhibits/webcams; www.koala.net/webcams; www.zooatlanta.org/animal/giant-panda/

Quiz time

SUNITHA PAI, teacher, St Joseph's Boys High School, Bengaluru



3) Iodine is used to test for what substance found in potatoes?
A) glucose
B) starch
C) protein

4) Which psychological concept did Pavlov's dog help him describe?
A) conditioning
B) consolidation
C) coding

1) What is it called when light changes direction after leaving a lens?
A) reflection
B) refraction
C) diffraction.

2) When you leave wine exposed to air, the ethanol in it reacts with oxygen to form what?
A) ethane
B) ethanol
C) ethanoic acid

Answers
1) B, refraction
2) C, ethanoic acid
3) B, starch
4) A, conditioning
5) B, 25

COMMON GRAMMATICAL MISTAKES

1. PURPOSE/AIM

THE RULES:

- "Purpose" (n) means an intention or aim; a reason for doing something.
- "Aim" (v) is to position or direct (ball, arrow, rocket, etc.) at a target.

HOW NOT TO DO IT:

- He **purpose** at the target but missed it.
- How could you do such a thing on **aim**?

HOW TO DO IT PROPERLY:

- He **aimed** at the target but missed it.
- How could you do such a thing on **purpose**?
- Their **aim** was to make beautiful art.

WEIRD BUT TRUE

- Bullfrogs do not sleep.
- Eight of the ten largest statues in the world are of Buddhas.

CHECK YOUR APTITUDE

- 1) If $25^x \times 5^{23} / 125^{15} = 5$, then the value of 'x' is?
A. 11 B. 15
C. 14 D. 13
- 2) The value of $[(1/5)/(1/5)]$ of $1/5 / [(1/5) / (1/5)]$ is?
A. 1 B. 5

CURRICULUM EXERCISES

- Q1. What is a limiting reactant?
- Q2. Fill in the blanks:
A. Segmental chips are formed during machining _____.
B. Internal gears can be made by _____.

- Q3. Identify the following bird species.

ANSWERS: (1) The reactant which, according to the mole ratio of the chemical equation, will be used up first and determines the amount of product created in the reaction. (2) (A) Cast iron (B) Shaping with pinion cutter (3) Rare green and blue budgie



In questions given below out of four alternatives, choose the one which can be substituted for the given word/sentence.

- | | | |
|---|--|---|
| Q.1) A person who regards the whole world as his country.
A. Doctor B. Tolerant C. Cosmopolitan D. Nomad | Q.3) One who sneers at the beliefs of others.
A. Minister B. Cynic C. Sneer D. Lawyer | Q.5) A person having a sophisticated charm.
A. Charming B. Debonair C. Leader D. Suave |
| Q.2) One who is a centre of attraction.
A. Followers B. Leader C. Centre D. Cynosure | Q.4) A leader or orator who espoused the cause of the common people.
A. Director B. Demagogue C. Speaker D. President | Q.6) A dabbler (not serious) in art, science and literature.
A. Hobby B. Dilettante C. Hobbit D. Elf |

ANSWERS: (1) C) Cosmopolitan (2) D) Cynosure (3) B) Cynic (4) B) Demagogue (5) B) Debonair (6) B) Dilettante

- | | | | |
|-----------|---|---|---|
| C. 7 D. 4 | increased by 8 and the denominator is doubled, we get 2/5. Then the fraction is?
A. 24/55 B. 12/25 C. 45/88 D. 12/55 | in the ratio of 5:8 and 9 is added to each, the ratio becomes 8:11. Find the sum of the numbers.
A. 39 B. 29 C. 23 D. 19 | of triangle?wh=37.5
A. 100 B. 125 C. 55 D. 140 |
|-----------|---|---|---|
- ANSWER:**
1. 13; 2. 1; 3. 12/25
4. 39