

**READ
BOOK**



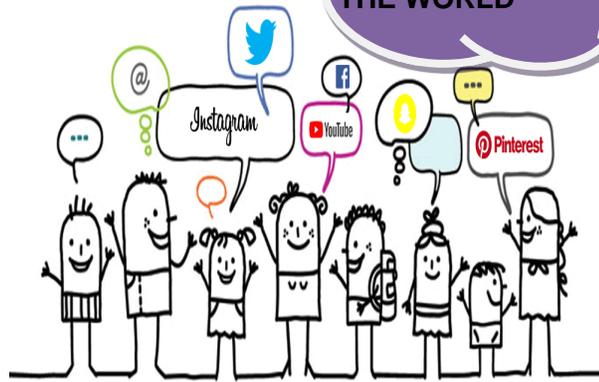
**SUMMERS
- WHAT
CAN I DO
???**

**LET
ME
THINK...**



**EAT, PLAY
, PAINT OR
BE A
SPORT**

**OR BE SOCIAL WITH
SOCIAL
DISTANCING BY
MAKING FRIENDS ,
LEARNING ONLINE
AND EXPLORING
THE WORLD**



Dear parent!

After an year of hard work and sincere efforts, your kid deserves a good summer break. During the long hot afternoon, beat the heat & quench your thirst for quality family time by staying indoors with kids & doing fun indoor things. Read, watch movies, play games and fill your child's heart with a zest to redefine their childhood



**YOU HAVE GOT A
MAIL!**

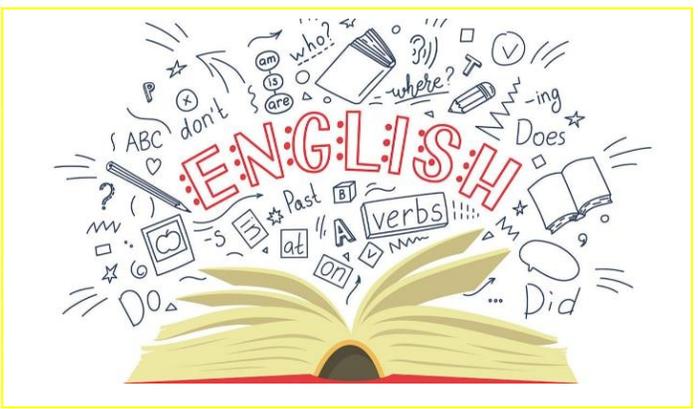
Dear Students !

What's a Holiday without Homework? Summer is here and with it come your amazing holidays! But what's a holiday without some homework? So, we've decided to give you a fun filled activity this summer!

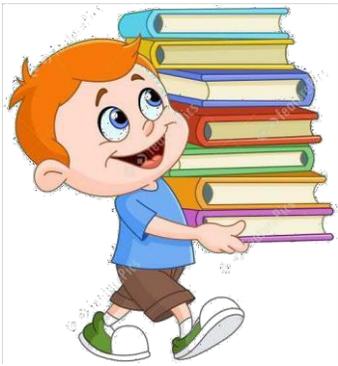
CLASS IX HOLIDAY HOMEWORK

<https://armypublicschoolkirkee.in/>

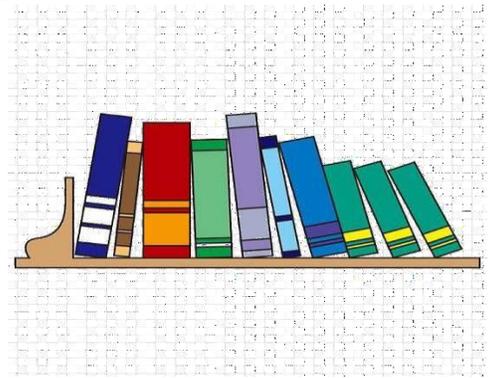




1. Write an **article** on, 'The Importance of Technology' with special reference to the online classes attended by you in the lockdown period. Compare these online sessions to the regular classes that you have at school. You may borrow ideas from the lesson 'The Fun They Had'' (Beehive).



2. Read the lesson 'The Sound of Music: Evelyn Glennie' (Beehive). Write a **letter** to your friend on how one can overcome challenges/difficulties and hold on to their



imagination/determination while moving towards their goals.

3. Read the lesson, 'The Happy Prince' (Moments) and draw the **character sketch** of the Happy Prince.

4. Imagine you are the disciple in the story 'the Kingdom Of Fools' (Moments).

Write a **letter** to your Guru to thank him for his timely intervention which saved your life.



गृहकार्य



हिंदी

1. सामाजिक विषयों पर आधारित 15 नारे (Slogan) कॉपी में लिखिए। यह नारे हिंदी भाषा में लिखित हों।
2. बाजार में एक नई मोटर कार आई है, उसके लिए एक आकर्षक विज्ञापन बनाइए।
3. चित्रकला प्रतियोगिता में प्रथम आने पर मित्र को बधाई देते हुए पत्र लिखिए।
4. किसी पर्व-त्योहार और किसी शुभ कार्य पर शुभकामना देते हुए या बधाई देते हुए दो-दो संदेश लिखिए।
5. समय का महत्व इस विषय पर पिता और पुत्र के बीच में संवाद लिखिए।

6. गतिविधि-नारा और संदेश लेखन

1. कोरोना वायरस से बचाव, सावधानी और सुरक्षा हेतु जागरूकता फैलाने वाले पाँच नारे लिखिए।
2. कोरोना आपदा के वर्तमान समय में कोरोना योद्धाओं के द्वारा किए गए कार्यों और उनके योगदान पर आभार प्रकट करते हुए, उनकी प्रशंसा करते हुए संदेश लिखिए।

मार्गदर्शिका :

1. स्पष्ट और सुंदर लेख में लिखिए।
2. संबंधित चित्र बनाकर कार्य को सुंदर व आकर्षित बनाइए।
3. किए गए कार्य को याद कर उसकी ऑडियो और वीडियो रिकॉर्डिंग कीजिए। रिकॉर्डिंग किए गए कार्य की समयावधि डेढ़ से दो मिनट होनी चाहिए।
4. रिकॉर्डिंग को अपनी अध्यापक, अध्यापिका अथवा कक्षा के व्हाट्सएप पर भेजें।





TOPIC: **TO CLASSIFY OBJECTS USED IN HOME AS :**
cube, cuboids, cylinder, cone, sphere and hemisphere and find their curved surface area/lateral surface area, total surface area and volume.

CONTENT COVERAGE : Chapter: Surface areas and volumes

- PROCEDURE:**
1. Click photographs of any five solids present in your home (cube, cuboid, cylinder, cone, sphere and hemisphere)
 2. Measure dimension of the solid objects (length, breadth, height and radius) using scale.
 3. Calculate curved surface area/lateral surface area, total surface area and volume of each solid.
 4. Represent the given work in the form of PowerPoint Presentation.
(refer to the sample slide given below)



Object – Cylindrical Steel Container

Height = 25 cm, Diameter = 14 cm, Radius = 7 cm

$$\begin{aligned}\text{Surface Area Of the Container} &= 2 \pi r (r + h) \\ &= 2 \times 22/7 \times 7 (7 + 25) \\ &= 44 \times 32 \\ &= 1408 \text{ cm}^2\end{aligned}$$

$$\begin{aligned}\text{Volume of the Container} &= \pi r^2 h \\ &= 22/7 \times 7 \times 7 \times 25 \\ &= 154 \times 25 \\ &= 3850 \text{ cm}^3\end{aligned}$$

5. Ppt should have minimum six slides.

slide one- name, class, section, subject, topic and academic session.

slide 2 to 6- surface areas and volumes.

Criteria and Rubrics: Research-3marks

creativity- 3 marks

Presentation -4 marks

Skills involved : Observational skills, logical thinking, and critical thinking and creativity.

ACTIVITY : 2 (INDIVIDUAL)

Q1-MCQ

1. The total surface area of a cube is 96 cm^2 . The volume of the cube is:

- (A) 8 cm^3 (B) 512 cm^3 (C) 64 cm^3 (D) 27 cm^3

2. A cone is 8.4 cm high and the radius of its base is 2.1 cm . It is melted and recast into a sphere. The radius of the sphere is:

- (A) 4.2 cm (B) 2.1 cm (C) 2.4 cm (D) 1.6 cm

3. In a cylinder, radius is doubled and height is halved, curved surface area will be

- (A) halved (B) doubled (C) same (D) four times



4. The total surface area of a cone whose radius is $2r$ and slant height $2l$ is

- (A) $2\pi r(1+r)$ (B) $\pi r(1+4r)$ (C) $\pi r(1+r)$ (D) $2\pi rl$

5. The radii of two cylinders are in the ratio of $2:3$ and their heights are in the ratio of $5:3$.

The ratio of their volumes is:

- (A) $10 : 17$ (B) $20 : 27$ (C) $17 : 27$ (D) $20 : 37$

6. The lateral surface area of a cube is 256 m^2 . The volume of the cube is

- (A) 512 m^3 (B) 64 m^3 (C) 216 m^3 (D) 256 m^3

7. The number of planks of dimensions $(4 \text{ m} \times 50 \text{ cm} \times 20 \text{ cm})$ that can be stored in a pit which is 16 m long, 12 m wide and 4 m deep is:

- (A) 1900 (B) 1920 (C) 1800 (D) 1840

8. The length of the longest pole that can be put in a room of dimensions

$(10 \text{ m} \times 10 \text{ m} \times 5 \text{ m})$ is

- (A) 15 m (B) 16 m (C) 10 m (D) 12 m

9. A conical tent is 10 m high and the radius of its base is 24 m then slant height of the tent is

- (A)26 (B)27 (C)28 (D)29

10. The curved surface area of a right circular cylinder of height 14 cm is 88, find the diameter of the base of the cylinder

- (A)1 cm (B)2 cm (C)3 cm (D) cm

Q2-Write True or False and justify your answer in each of the following :

1. The volume of a sphere is equal to two-third of the volume of a cylinder whose height and diameter are equal to the diameter of the sphere.
2. If the radius of a right circular cone is halved and height is doubled, the volume will remain unchanged.
3. In a right circular cone, height, radius and slant height do not always be sides of a right triangle.
4. If the radius of a cylinder is doubled and its curved surface area is not changed, the height must be halved.
5. The volume of the largest right circular cone that can be fitted in a cube whose edge is $2r$ equals to the volume of a hemisphere of radius r .
6. A cylinder and a right circular cone are having the same base and same height. The volume of the cylinder is three times the volume of the cone.
7. A cone, a hemisphere and a cylinder stand on equal bases and have the same height. The ratio of their volumes is $1 : 2 : 3$.
8. If the length of the diagonal of a cube is $6\sqrt{3}$ cm, then the length of the edge of the cube is 3 cm.
9. If a sphere is inscribed in a cube, then the ratio of the volume of the cube to the volume of the sphere will be $6 : \pi$.
10. If the radius of a cylinder is doubled and height is halved, the volume will be doubled.

Q3- Long answers:

1. Metal spheres, each of radius 2 cm, are packed into a rectangular box of internal dimensions $16\text{ cm} \times 8\text{ cm} \times 8\text{ cm}$. When 16 spheres are packed the box is filled with preservative liquid. Find the volume of this liquid. Give your answer to the nearest integer. [Use $\pi=3.14$]
2. A storage tank is in the form of a cube. When it is full of water, the volume of water is 15.625 m^3 . If the present depth of water is 1.3 m, find the volume of water already used from the tank.
3. Find the amount of water displaced by a solid spherical ball of diameter 4.2 cm, when it is completely immersed in water.
4. How many square metres of canvas is required for a conical tent whose height is 3.5 m and the radius of the base is 12 m?
5. Two solid spheres made of the same metal have weights 5920 g and 740 g respectively. Determine the radius of the larger sphere, if the diameter of the smaller one is 5 cm.
6. A school provides milk to the students daily in a cylindrical glasses of diameter 7 cm. If the glass is filled with milk up to the height of 12 cm, find how many litres of milk is needed to serve 1600 students.
7. A cylindrical roller 2.5 m in length, 1.75 m in radius when rolled on a road was found to cover the area of 5500 m^2 . How many revolutions did it make?
8. A small village, having a population of 5000, requires 75 litres of water per head per day. The village has got an overhead tank of measurement $40\text{ m} \times 25\text{ m} \times 15\text{ m}$. For how many days will the water of this tank last?
9. A shopkeeper has one spherical laddoo of radius 5cm. With the same amount of material, how many laddoos of radius 2.5 cm can be made?
10. A right triangle with sides 6 cm, 8 cm and 10 cm is revolved about the side 8 cm. Find the volume and the curved surface of the solid so formed.



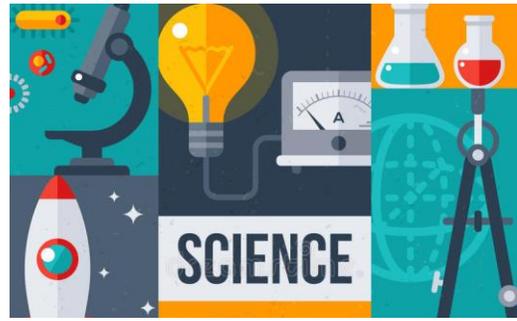
-A. Prepare a Disaster Management Project on COVID-19, covering

1. Causes, consequences, management of the pandemic.
2. How to create awareness and preparedness among the community.
(Report of 10 pages)(Integrate Art) Guidelines:-

- ▮ Handwritten
- ▮ A-4 size paper
- ▮ First page-Student details
- ▮ Acknowledgement
- ▮ Index/Content
- ▮ Last page –Bibliography
- ▮ Use Disaster management e-book for reference(Together towards a safer India)
- ▮ Newspaper cuttings, map, diagram, illustrations.
- ▮ Project strictly based on India.



B. Find out more about any one revolutionary figure you have read about in the chapter 'French Revolution'. Write a short biography of this person.



1. Stay tuned

Make small videos (not more than 1 minute) using special effects, slogans, quotes to spread awareness about the preventive measures against coronavirus and develop positive spirits during the pandemic. (You can include kindness towards elders, financially weak, Stray animals etc.)

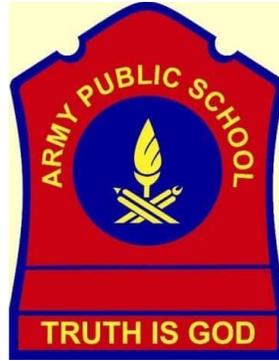


Handwashing is the *single* most important thing you can do to stop the spread of infection!



2. PPT

Make a Power point presentation on corona pandemic based on its cause, symptoms, preventive measures and the measures taken by you to protect against COVID19.



It's high time ,to redefine our norms , our beliefs and our attitude towards life.

It's time to be social while still being socially distant.

It's time learn to be a better

learner ! Stay home! Stay safe!

