

**ADARSH PUBLIC SCHOOL**  
**HOLIDAYS' ASSIGNMENT**  
**CLASS - IX**

**ENGLISH**

1. Complete Unit 8, 9, 10, 11 of Workbook.
2. Write an article on topic 'Health of Planet'. Take help from poem – 'On killing a Tree' for Inspiration.
3. Write an article on 'Women in Sports'. Take help from chapter – 'Reach for the Top' for inspiration.
4. You recently visited a temple during a holiday trip. Write a diary entry describing your experience.
5. Imagine you are Gerrard. Write a diary entry describing how you trapped the intruder and handed him over to the police.
6. Write a story on the topic 'Balance is Beneficial'. Also, give a suitable moral in the end.
7. Use the beginning to create a story with suitable title:  
    'Mohan took the stool, stepped on it and opened the cupboard in the kitchen. He saw.....'
8. Visit any tourist place in your holidays. It could be a museum, exhibition, food / book fair etc. Write a descriptive paragraph based on your visit.

**HINDI**

1. व्याकरण पुस्तक के पृष्ठ 140 पर दिए पत्र लेखन के अभ्यास के प्रश्न नं 11 व 12.
2. अनुच्छेद लिखिए - महानगरीय जीवन की समस्याएँ
3. दो छात्राओं के मध्य लड़का - लड़की भेदभाव को लेकर हुई बातचीत को संवाद रूप में लिखिए ।
4. 'सौभाग्य साड़ी भंडार' शक्ति नगर, दिल्ली द्वारा साड़ियों, सूट व अन्य वस्त्रों की बिक्री के लिए एक विज्ञापन तैयार कीजिए ।
5. व्याकरण पुस्तक के पृष्ठ (XV) पर दिए चित्रवर्णन का प्रश्न 6 कीजिए ।

## MATHS

1. A corn cob, shaped like a right circular cone, has the radius of its broadest end as 2.8cm and Length (height) as 15cm. If each  $1\text{cm}^2$  of the surface of the cob carries an average of 5 grains, find the number of grains on the entire cob (Take  $\pi = \frac{22}{7}$ ).
2. Find the total surface area of a cone whose radius is  $\frac{r}{2}$  and slant height is 2l.
3. The dimensions of a cuboid are in the ratio 1:2:3. If its total surface is  $352\text{cm}^2$ . Find the dimensions of the cuboid.
4. The radius of sphere is 1cm. If its volume is  $x\text{ cm}^3$  and surface area is  $y\text{ cm}^2$ , find the ratio of x to y.
5. A right triangle with sides 6cm, 8cm and 10cm is revolved about the side 8cm long. Find the volume and the area of the curved surface of the cone so formed.
6. The areas of three adjacent faces of a cuboid are x, y and z. If the volume is V, prove that  $V^2 = xyz$ .
7. If V is the volume of a cuboid of dimensions a, b, c and S is its surface area, then prove that

$$\frac{1}{V} = \frac{2}{S} \left( \frac{1}{a} + \frac{1}{b} + \frac{1}{c} \right)$$

8. The mean of 200 items was 50. Later on, it was discovered that the two items were misread as 92 and 8 instead of 192 and 88. Find the correct mean.
9. If  $\bar{X}$  is the mean of the ten natural numbers  $x_1, x_2, x_3, x_4, \dots, x_{10}$ , show that  $(x_1 - \bar{X}) + (x_2 - \bar{X}) + \dots + (x_{10} - \bar{X}) = 0$
10. Draw a histogram for the marks of students given below:

(Adjusted frequency)

Marks	0-10	10-30	30-45	45-50	50-60
No. of Students	8	32	18	10	6

## SCIENCE

Complete the following questions in the Science notebook.

1. What is binomial nomenclature? Who proposed it and how is it written?
2. Give reasons for the following:
  - a) Whales are not grouped under the Class Pisces.
  - b) Bryophytes and Pteridophytes grow in moist and shady place.
3. Define the terms and give one example of each.

- a) Bilateral symmetry                      b) Coelom                      c) Triploblastic
4. Four men lift a 250kg box to a height of 1m and hold it without raising or lowering it.
- a) How much work is done by the man in lifting the box?
- b) How much work do they do in first holding it.
5. How is the power related to the speed at which an object can be lifted. How many kilograms will a man working at the power of 100W, be able to lift at constant speed of 1 m/s vertically ( $g=10\text{m/s}^2$ ).

## **SOCIAL SCIENCE**

1. Make a project on the topic:-  
“Challenges confronting Indian Economy”  
Under this topic cover the following challenges:-
- a) Poverty
- b) Over Population
- c) Unemployment
- d) Corruption
2. Answer the following questions in your notebook:-
- a) Refer to Economics textbook page 17, chapter-2 People as a resource. Looking at the picture can you explain how a doctor, teacher, engineer and a tailor are an asset to the economy.
- b) When and how does the President exercise his discretion?
- c) The Government of India has provided reservation for Scheduled Castes, Scheduled Tribes and other Backward classes. Are these reservations against the right to equality? Explain.
- d) How did the Indian pastoralists cope up with the changes that were brought about by the British colonial officials?
- e) On the political maps of India mark and Locate the following with the appropriate symbols:-
- (i) Pastoral Communities :- Dhangars, Gujjars, Gaddis, Raikas and Banjaras.
- (ii) Mark the Natural Vegetation of India.

**WISHING YOU A VERY HAPPY & PROSPEROUS NEW YEAR !**