

**ITBP PUBLIC SCHOOL
DWARKA SEC 16 B
HOLIDAYS HOMEWORK 2021-22
CLASS IX**

“Laughter is the sun that drives winter from the human face.”

“Let us love winter, for it is the spring of genius.”

SOCIAL SCIENCE

- Q. 1 What are the indicators used by social scientists to understand poverty?
- Q. 2 What do you understand by vulnerability to poverty?
- Q. 3 How were the British policies responsible for the increase in poverty in India?
- Q. 4 How is economic growth linked with poverty reduction in India?
- Q. 5 How are socio-cultural and economic factors responsible for poverty?
- Q. 6 Make a portfolio on any Political Party.

SCIENCE

1. Solve in text and text book questions of chapter 4 in fair notebook.
2. Research about the greenhouse gases, their sources and their impact on humans, animals and environment. Also write about the preventive steps we can take to avoid global warming in context to green chemistry.
3. What will cause greater change in kinetic energy of a body? Changing its mass or changing its velocity?
4. What type of energy is stored in the spring of a watch?
5. By how much will the speed of a body, of fixed mass, increase if its kinetic energy becomes four times its initial kinetic energy?
6. Define 1 J of work.
7. A lamp consumes 1000 J of electrical energy in 10 s. What is its power?
8. Can there be displacement of an object in the absence of any force acting on it? Think. Discuss this question with your friends and teacher.
9. When do we say that work is done?
10. State the law of conservation of energy?
11. Write an expression for the kinetic energy of an object.
12. State the difference between Power and energy?
13. Define 1 J of work.
14. What is power?
15. Define 1 watt of power.
16. Do the given project and working model given.

MATHEMATICS

SUBJECT ENRICHMENT ACTIVITIES

- To determine the formula for total surface area of a cube of side ‘ a ’ units by paper cutting and folding technique.

- To determine the formula for total surface area of a right circular cylinder in terms of radius (r) of the base of cylinder and height (h) by paper cutting and folding technique.

ASSIGNMENT

1. The curved surface area of a cone is 12320 sq. cm, if the radius of its base is 56 cm, find its height.
2. Two cubes of edge 6 cm are joined to form a cuboid. Find the total surface area of the cuboid.
3. Calculate the surface area of a hemispherical dome of a temple with radius 14 m to be whitewashed from outside.
4. It costs ₹3300 to paint the inner curved surface of a 10 m deep well. If the rate cost of painting is of ₹30 per m², find : (a) inner curved surface area (b) diameter of the well
5. A dome of a building is in the form of a hemisphere. From inside, it was whitewashed at the cost of ₹498.96. If the rate of whitewashing is ₹4 per square metre, find the : (i) Inside surface area of the dome (ii) radius of the dome.
6. A right triangle of hypotenuse 13 cm and one of its sides 12 cm is made to revolve taking side 12 cm as its axis. Find the curved surface area of the solid so formed.
7. Each edge of a cube is increased by 50%. Find the percentage increase in the surface area of the cube.
8. The paint in a certain container is sufficient to paint an area equal to 9.375 m². How many bricks of dimensions 22.5 cm×10 cm×7.5 cm can be painted out of this container?
9. Praveen wanted to make a temporary shelter for her car, by making a box – like structure with tarpaulin that covers all the four sides and the top of the car (with the front face as a flap which can be rolled up). Assuming that the stitching margins are very small, and therefore negligible, how much tarpaulin would be required to make the shelter of height 2.5m, with base dimensions 4m×3m?

HINDI

5 अनुच्छेद (दो सूक्ति परक दो नीति परक समसामायिक)

5 नारे(२ शिक्षा परक २ सामाजिक 1 नीतिपरक)

5 संवाद

INFORMATION TECHNOLOGY

Q1. Consider the following spreadsheet and answer the questions that follow:

REGION	SALES 2008	SALES 2009	SALES 2010	SALES 2011
New Delhi	56	67	85	87
Mumbai	66	77	54	91
Chennai	74	85	67	77
Calcutta	75	65	47	63

- a. Calculate the Total sale for the year 2008 in cell B6.
- b. Write formula/expression to find difference in sales of Mumbai and Delhi for the year 2009 as sales of 2011 Delhi-sales of Mumbai in the cell C8.
- c. Write formula/expression to find the average sale of year 2010 in D6.

d. Write expression to find the total sale for the year 2010 and 2011 in Mumbai in cell G3.

Q2. Given the following Spreadsheet, write the appropriate Formula/Expression/Function to be used for

(a-e)

PLAYER ID	NAME	POINTS	BONUS	RANK	TOTAL
101	Jaideep	1300	200	4	
102	Ananya	1800	150	1	
103	Mihir	1600	100	3	
104	Varsha	1200	100	5	
105	Sandeep	1700	200	2	

a. Write the formula to calculate the Total points (points + bonus) in F2.

b. Write the feature used for arranging the Rank from Highest to Lowest.

c. To find the player with Maximum TOTAL to be written to Cell F7.

d. To find the average of Points to be written in the cell C7.

e. Display players list in sheet2 by giving reference of sheet1. (Connect two worksheets)

Q3. Make a Book Cover in Ms. Word.

Q4. Follow these steps.

1. Create a document in Ms. Word.
2. Type an essay on the topic 'Pollution'.
3. Insert page number as footer and 'Pollution' as header.
4. Use autocorrect to correct the spelling mistakes.
5. Insert suitable pictures in the document.
6. Use Wrap feature to wrap the text around the image.
7. Save the document in .docx format.

Q5. Using smart art draw figure of water cycle.

Q6. Write 5 features of the following software:

- 1) Ms. word
- 2) Ms. Excel

Q7. Create a mark sheet and find topper of class, percentage and grade obtained by students.

Q8. What do you understand by conditional formatting?

Q9.What is the importance of format painter in Ms.Word?

Q10.What is Thesaurus?

ENGLISH

“Reading is essential for those who seek to rise above the ordinary.”

- Newspaper is a treasure house of information that increases its wealth every day before coming to our doorsteps. Read English newspaper daily and select any 5 difficult words and write their meanings in your notebook.
- Reading a book is a great therapy to strengthens the brain. Read any one of the book mentioned below:

The Angry River (Ruskin Bond)

The Blue Umbrella (Ruskin Bond)

The Pursuit of Happiness (Daniel G. Brinton)

"I can shake off everything as I write; my sorrows disappear, my courage is reborn."

- Write a travelogue for Sikkim
Include the following points in your travelogue
 - Location
 - Mentions the ways and means to reach the destination
 - Cultural background
 - Tourists' attraction
 - Cuisine
-

Who am I ?

Choose any profession that you aspire to be in future. Prepare a short video enacting your profession. The duration of video should be 2 mins only. Mode of submission is Google classroom.

Grammar with fun:

Determiners:

<https://quizizz.com/join/quiz/d38f73edadd41c7b5b52371d119fef8c4b52de3cd5b548feb0d837f210b03ce/start?studentShare=true>

(Press control and then click to open the link)

Modals

<https://quizizz.com/join/quiz/5f4f7c7b339a00001c3a8327/start?studentShare=true>

(Press control and then click to open the link)

Solve this worksheet in your grammar notebook:

Worksheets

Tenses

MIXED TENSES EXERCISES

1. I _____ to visit you yesterday, but you _____ at home. (to want) (be, not)
2. Look! Sara (go) _____ to the movies.
3. The teacher (probably/assign) _____ a test to his students next Monday.
4. By 9 o'clock, we (finish) _____ our homework.
5. I (drive) _____ for two months now.
6. It is already 9:30 PM and I (wait) _____ here for over an hour. If John does not (get) _____ here in the next five minutes, I am going to leave.
7. I (be) _____ really angry at John yesterday. By the time he finally arrived, I (wait) _____ for over an hour. I almost left without him.
8. Did you (hear) _____ that Ben was fired last month? He (work) _____ for that import company for more than ten years and he (work) _____ in almost every department. Nobody knew the company like he did.
9. Wait a minute, I _____ this box for you. (to carry)
10. I (see) _____ many pictures of the pyramids before I went to Egypt. Pictures of the monuments are very misleading. The pyramids are actually quite small.
11. Sarah (climb) _____ the Matterhorn, (sail) _____ around the world, and (go) _____ on safari in Kenya. She is such an adventurous person.
12. Look! It _____, so we can't go to the beach. (to rain)
13. Sarah (climb) _____ the Matterhorn, (sail) _____ around the world and (go) _____ on safari in Kenya by the time she turned twenty-five. She (experience) _____ more by that age than most people do in their entire lives.
14. (they / spend) _____ their holidays in Paris last summer?
15. When Melanie came into the office yesterday, her eyes (be) _____ red and watery. I think she (cry) _____.
16. By the time we get to Chicago this evening, we (drive) _____ more than four hundred miles. We are going to be exhausted.
17. At 6 o'clock on next Friday they (sing) _____ the new song.
18. When he (wake up) _____ yesterday, his mother (already /prepare) _____ breakfast
19. When Sarah goes on vacation next month, she (study) _____ German for over two years. She should be able to communicate fairly well while she is in Austria.
20. (you / ever / see) _____ a whale?