

# D.A.V. Public School, Behror

Holiday Homework Class IX



The time when you can  
play,

On the beach with your loved  
ones, And do what your heart  
say, There is no one to see  
here, There is nothing as such  
to see,

Only the sunlight passing the home,  
And clear blue sky as can be,  
Summers are finally here,

**So have a good summer  
time, As it's the most  
amazing time Happy  
Summer Time.**

**General Instructions that are to be followed:**

- Download the holiday homework pages and complete the task.
- Handwriting should be neat and legible.
- All the subject holiday homework should be done in respective subject notebooks.
- The holiday homework would be graded.
- The work should be original and not copied from internet.
- The assignments should be submitted to the respective subject teachers.
- Surprise recapitulation will be done by the teachers in the month of July.
- Encourage your ward to do the assigned holiday homework independently.

**Summer Tips to be followed:**

- “A healthy mind resides in a healthy body”- Pay attention to your health, go for morning and evening walks, drink lots of water, avoid the consumption of junk food, eat healthy and stay healthy.
- Open your mind for reading newspapers, novels, blogs and stories that will help you in increasing your vocabulary.

**‘Some of your best ideas come when you're on vacation.’**

### English

#### **Literature-Based Tasks**

1. Write a character sketch of Margie from The Fun They Had.
2. Summarize the poem “The Road Not Taken” in your own words (100–120 words).
3. What does the story “The Sound of Music” teach us about determination and passion? (150 words)
4. Imagine you are the lost child from the story The Lost Child. Write a diary entry describing your emotions after being reunited with your parents.
5. Choose one poem from your textbook and draw an illustration representing its theme. Add a brief explanation.

#### **Section B: Writing Skills**

6. Write a formal letter to the Principal of your school requesting permission to organize a reading club.
7. Write a descriptive paragraph on your favourite holiday destination.
8. Draft an article on “Benefits of Outdoor Activities in the Digital Age” (150–200 words).
9. Write a story starting with: “I was walking through the forest when I heard a whisper behind me...”
10. Prepare a speech for the morning assembly on “The Role of Students in Environmental Conservation.”

#### **Grammar & Vocabulary**

11. Prepare a list of 20 new words from your English textbook. Write their meanings and use them in sentences.
12. Write five sentences each on the following:  

Reported speech	Modals	Subject-verb agreement
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13. Change 10 active voice sentences into passive voice.
14. Complete five gap-filling exercises using appropriate articles, prepositions, or conjunctions.
15. Correct the grammatical errors in the following paragraph.

### Maths

Q-1 Rationalise the following

- (a)  $\sqrt{3}-\sqrt{2}/\sqrt{3}+\sqrt{2}$
- (b) If  $x=2+\sqrt{3}$  then find  $(x+1/x)$
- (c) Find a and b if  $5+3\sqrt{3}/7+4\sqrt{3}=a+b\sqrt{3}$
- (d) Find the value of  $(1/2+\sqrt{3}+1/\sqrt{3}+\sqrt{2}+\sqrt{2})$
- (e)  $6/\sqrt{5}-\sqrt{3}$

Q-2 Do factorise

- (a)  $X^2 -14x-95$
- (b)  $x^3 -4x^2 -11x+30$
- (b)  $X^2 -11x-80$
- (d)  $12x^2 +4x-5$

Q- 3 Expanded the following

- (a)  $X^3 -1728$
- (b)  $(-2x+y-3z)^2$
- (c)  $(-4m+n+2p)^2$
- (c)  $X^3 + 512$
- (e)  $(-2x+3y)^3$
- (f)  $(-3p+5q)^3$

Q-4 Draw the point on Cartesian plane

- (a)  $(-3,-4)$
- (b)  $(2,-5)$
- (c)  $(-1,-4)$
- (d)  $(2,4)$

Q-5 Find four solution of equation

- (a)  $2x-3y=-5$
- (b)  $x/3 -2y=-4$
- (c)  $-4x+3y=-9$



Q-6 Locate the following in number line

- (a)  $\sqrt{5}$  (b)  $\sqrt{9.3}$  (c)  $\sqrt{2}$  (d)  $\sqrt{10.3}$

Q-7 find the product using identity

- (a)  $108 \times 111$  (b)  $(x-5)(x-7)$

Q-8 find the value of k if  $(x-2)$  is a factor of  $p(x)$  in each of the following

- (a)  $x^2 - 4x + k$  (b)  $x^2 + 3x - k$  (c)  $x^3 + 4x^2 + 3x + k$

## Science

### Physics

**Do the assignment either in physics fair notebook or a separate notebook**

1. Which of the following is true for displacement? (a) It cannot be zero. (b) Its magnitude is greater than the distance travelled by the object.
2. Under what condition(s) is the magnitude of average velocity of an object equal to its average speed?
3. What does the path of an object look like when it is in uniform motion?
4. When will you say a body is in (i) uniform acceleration? (ii) non-uniform acceleration?
5. A motorboat starting from rest on a lake accelerates in a straight line at a constant rate of  $3.0 \text{ m s}^{-2}$  for  $8.0 \text{ s}$ . How far does the boat travel during this time?
6. An artificial satellite is moving in a circular orbit of radius  $42250 \text{ km}$ . Calculate its speed if it takes  $24$  hours to revolve around the earth
7. Abdul, while driving to school, computes the average speed for his trip to be  $20 \text{ km.h}^{-1}$ . On his return trip along the same route, there is less traffic and the average speed is  $30 \text{ km.h}^{-1}$ . What is the average speed for Abdul's trip?
8. A farmer moves along the boundary of a square field of side  $10 \text{ m}$  in  $40 \text{ s}$ . What will be the magnitude of displacement of the farmer at the end of  $2$  minutes  $20$  seconds from his initial position?

Choose the correct option

In each of the following questions, a statement of Assertion is given and a corresponding statement of Reason is given just below it. Of the statements, given below, mark the correct answer as:

- (a) Both assertion and reason are true and reason is the correct explanation of assertion.  
(b) Both assertion and reason are true but reason is not the correct explanation of assertion.  
(c) Assertion is true but reason is false.  
(d) Both Assertion and Reason are false

9. Assertion : When the displacement of a body is directly proportional to the square of the time. Then the body is moving with uniform acceleration.

Reason : The slope of velocity-time graph with time axis gives acceleration

10. Assertion : If a particle is moving with constant velocity, then average velocity for any time interval is equal to instantaneous velocity.

Reason : If average velocity of a particle moving on a straight line is zero for a given time interval, then instantaneous velocity at some instant within this interval must be zero

11. Assertion : Motion with uniform velocity is always along a straight line path.

Reason : In uniform velocity, speed is the magnitude of the velocity and is equal to the instantaneous velocity

### Chemistry

Q.1 Why are light and sound not considered as matter?

Q.2 A rubber band is a solid, but it can change its shape. Why?

Q.3 Define i) Melting point ii) Diffusion iii) Humidity iv) Plasma

v) Brownian movement v) Tyndall Effect

vi) Emulsion vii) Aerosols viii) Solubility

Q.4 Which property of gas is used in supplying oxygen cylinders to Hospitals?

Q.5 Is it true to say that fluorescent tube contains Plasma? Explain.

- Q.6 A balloon when kept in sun, burst after sometime. Why?
- Q.7 Why does the temperature remains constant during the change of state for any substance?
- Q.8 Melting of wax is physical change but burning of wax is chemical change?
- Q.9 Read about 5 scientist and their contribution in chemistry and write at least 50 words on each scientist.
- Q.10 Write the difference between:-
- Solid, Liquid and Gas
  - Homogeneous and Heterogeneous
  - Compound and Mixture
  - Solution, Colloidal solution and Suspension

## **Biology**

- Draw the figures of various types of cells present in human body.
- Draw a mind map to show cell components, cell organelles its discoveries and their functions.
- Draw the nucleus of the cell and write a short note for the following
  - Double layered structure which encloses the nucleus
  - Visible entangled mass of thread like structure
  - A darkly stained round structure inside the nucleus
- Differentiate the following terms
  - Cytoplasm and nucleoplasm
  - Plant cell and animal cell
  - Prokaryotic and eukaryotic cell
- Where do the lipids and proteins constituting the cell membrane get synthesized?
- Draw a neat labelled diagram of mitochondria and label its parts.

## **Social Science**

- Explain the importance of the Ganga River in Indian culture and economy.
- Imagine India without monsoon season. How would it affect agriculture, water resources and daily life?
- What are the benefits and challenges of India's long coastline?
- Identify and locate the major mountain ranges, rivers and plateaus on an outline map of India.
- Paste five report on "Operation Sindoor" in fair notebook.
- Interview your mother or another member of your family to find out their life now divide their life into different periods and list out the significant events in each period. Explain the basis of your periodization.
- How can technology be used to enhance disaster management efforts?
- Revise all the chapters done so far.

## **Computer**

- Write the correct format of email message.
- Draw the word page with all tool bar.
- Write the name of any ten software provider company.
- Write the use of software in our life.

## **हिंदी**

- प्रश्न 1. A4 साइज शीट पर निम्नलिखित भेदों को लिखिए-
- रोल नंबर 1 से 15 तक अलंकार लिखिए।
- रोल नंबर 15 से 30 तक समास लिखिए।
- रोल नंबर 30 से 46 तक वाक्य भेद लिखिए।
- प्रश्न 2. 'ललद्यय' कश्मीरी कवयित्री थीं। आप कहाँ के हैं उसका वर्णन कीजिए।
- प्रश्न 3. अपनी देखी - सुनी किसी आपदा का 120 शब्दों में वर्णन कीजिए।
- प्रश्न 4. प्रतिदिन हिंदी समाचार पत्र पढ़िए।
- प्रश्न 5. पाठ्यक्रम का दोहरान करिए।