



DELHI PUBLIC SCHOOL GWALIOR

UNDER THE AEGIS OF
THE DELHI PUBLIC SCHOOL SOCIETY, NEW DELHI



Holiday Assignment

Class - IX

Session (2026-27)



Dear Parents

Greetings of the day!

Vacations are the best time to relax and enjoy. Summer vacations are the reason behind fun in the sun, beach and shadow of the umbrella, but it is also the time to keep some analogy of academics alive in the fun to chisel the inherent potential inside your child. My suggestion to you is to spend these holidays being sociable and be vibrant in undertaking your plans so that the vacation is made purposeful.

To begin with, enhance every precious moment prudently by motivating your child to read informative and enlightening books. Help them improve their speech by conversing with them on every possible occasion and strop their vocabulary by providing them with new words. Spend substantial time visiting your kith and kin and people in your vicinity. Hold parley with your child on daily happenings and crucial world events as this is the best time to update, put forth your thoughts, notions and ideas before your ward and ask for an opinion, be a constant supporter of tolerance and disseminate it amongst people, teach your child to help and let him/her realize the meaning of real happiness and harmony and certainly root out all possible ill feelings and factions. Try being friendly and benevolent to all, let your child play the part in family reunions which will strengthen your family bond. Look out for the ways to abrade the plodding routine and take up some supportive vigorous activities with your child like swimming, cycling, jogging, painting or any other activity that your child enjoys.

It's your time to make every single moment eventful and memorable for your child and fill them with loads of experiences, which he/she eagerly wants to share with his/her pals and Educators when returned to School.

I wish you a pleasant vacation!

Regards

**Principal
Delhi Public School Gwalior**

ADD ONS TO MAKE YOUR VACATION MEANINGFUL !!

Childhood is a crucial stage of development. Most of life's important lessons are learnt here! Let us join hands and make sincere efforts to augment and hone the learning process of the child through inculcation of self learning and keen observation.

- * Let us attempt to enable them by allowing them to assume responsibilities of the routine household and shopping chores. (e.g.: laying the table, serving the guests, making their beds, buying groceries from the nearby stores etc.)
- * Let us make them aware about their social responsibilities which will transform them into a responsible citizen of our society. (e.g.: keeping the surroundings clean, make use of public litter bins, switching off lights / fans / closing the taps properly etc.)
- * They should be taught how to connect with Almighty God through prayers and meditation. (e.g.: daily prayers, thought of the day, meditate to improve the concentration etc.)
- * Socialize and connect with people, neighbours and relatives. (e.g.: meeting & greeting neighbours, helping the elderly around, be friendly to the peers etc.)

We wish all the great for your summer holiday time. May all the pleasure in the world embrace you, let your fun endless with friends and family.

Note : Kindly do all the Holiday Assignments neatly and submit it latest by July 10, 2026.

SUBJECT – ENGLISH

NOTE: SUBMIT THIS WORK IN A PROJECT FILE USING A4 SIZE SHEETS ONLY

QUESTION 1: MY FAVOURITE POEM

Q1. Pick your favourite poem from your **Kaveri** textbook and answer the following:

- Write the name of the poem and the poet.
- Explain the message of the poem in 4-5 lines.
- Write your favourite stanza from the poem.
- Write 3-4 lines on why you like that stanza. Word Limit: 120-150 words total

QUESTION 2: POETIC DEVICES

Q2. Choose any poem from your textbook.

- Write the name of the poem and the poet.
- Identify any two poetic devices used in the poem: simile, metaphor, rhyme, or imagery.
- Fill the table given below:(format is given below)

| Poetic Device | Line from the poem | Explanation |

Word Limit: 100-120 words

QUESTION 3: WILLIAM WORDSWORTH AND NATURE

Q3. Choose any poem by William Wordsworth.

- Write the name of the poem.
- Explain how the poet describes nature in that poem.
- Give two examples from the poem with explanation. Word Limit: 150-180 words

Format: Write in 3 short paragraphs

QUESTION 4: ESSAY WRITING

Q4. If the potter(Sentila) in **The Pot Maker** had to choose between tradition and technology, what should she do? Give your opinion with 2 reasons. **Instructions:**

- Write in 4-5 paragraphs.
- Give your opinion clearly with 2 reasons and examples from the story.
- Write a proper conclusion. Word Limit: 250-300 words

GENERAL INSTRUCTIONS FOR PROJECT FILE

- Use A4 size sheets only and arrange them in a project file.
- Write the question before starting each answer.
- Start each question on a new A4 sheet.
- Draw 1-inch margins on all four sides of each sheet.
- Write in neat handwriting using blue or black pen only.
- Write your name, class, section on the cover page properly.
- Attach a cover page with subject, your details, school name, and session

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SUBJECT – HINDI

ग्रीष्मकालीन गृहकार्य

1. किसी भी देश में होने वाले युद्ध का प्रभाव उस देश की अर्थ व्यवस्था, रसोई, वाहन, शिक्षा, कृषि, रोजगार, पर्यटन और व्यापार पर क्या पड़ता है? अपने विचार सचित्र प्रकट कीजिए।

अथवा

2. ग्रीष्म काल में जब आप पक्षियों के लिए जल की व्यवस्था करते हैं और पक्षी जब उस जल को पीते हैं, तो पक्षी आपसे क्या कहना चाहेंगे? 100 शब्दों में अपने विचार सचित्र प्रकट कीजिए।

3. जो बात आप आज तक नहीं कह पाए, उसे अपने शब्दों में पिरोकर एक पत्र के द्वारा अपने माता-पिता/मित्र/दादा-दादी या अन्य सगे संबंधियों को लिखें। पत्र सचित्र व सुंदर प्रस्तुतीकरण के साथ अपेक्षित है।

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SUBJECT – SANSKRIT

ग्रीष्मावकाश गृहकार्य

1. गम्, कृ, अस्, सेव् धातुओं के रूप लट्, लृट्, लङ्, लोट्, विधिलिङ् लकारों में लिखें। (नोट बुक में)
2. किम् शब्द के रूप पुल्लिंग, स्त्रीलिंग में तथा भवत्, नदी, अस्मद्, युष्मद् के रूप लिखें। (नोट बुक में)
3. 'सुभाषित' आधारित कोई पांच श्लोक अर्थ सहित लिखें एवं कंठस्थ करें। (प्रयोजना कार्य फाइल में)

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SUBJECT – MATHEMATICS

General Instructions :

- Holiday Assignment consists of Multiple Choice questions, Assertion and Reasoning questions, Case based questions and solve the following questions.
- All the work to be done in A4 sized ruled sheets which are to be arranged in a stick file.
- All the best! Stay Home, Stay Safe!

Multiple Choice Questions

1. Which of the following is a rational number?
a) $\sqrt{2}$ b) π c) 0.75 d) $\sqrt{5}$
2. The decimal expansion of a rational number is
a) Always terminating b) Always non-terminating
c) Never recurring d) Either terminating or recurring
3. Which of the following is irrational number ?
a) $\frac{3}{7}$ b) 0.121212 ... c) $\sqrt{7}$ d) -5
4. If a rational number is expressed in lowest form and denominator has only factors 2 and 5, then decimal expansion is
a) Non-terminating b) Terminating
c) Recurring d) Non-terminating and Recurring
5. Between any two rational numbers there are:
a) No, rational numbers. b) Only one rational number.
c) Infinite rational numbers. d) Only two rational numbers
6. The point (0,5) lies on:
a) X-axis b) Y-axis c) Origin d) I Quadrant
7. Which point lies in the third quadrant:
a) (2,3) b) (-2,3) c) (-2,-3) d) (2,-3)
8. The x-coordinate of any point on y-axis is:
a) 1 b) 0 c) -1 d) Any number

Q.22 Find the product.

(a) $\frac{7}{11} \times \frac{5}{8}$ (b) $\frac{-4}{7} \times \frac{5}{14}$

Q.23 Find the quotient.

(a) $\frac{2}{3} \div \frac{3}{10}$ (b) $\frac{7}{11} \div \frac{5}{8}$

Q.24 Simplify using distributive property :

$$\frac{7}{9} \left(\frac{6}{7} + \frac{3}{4} \right) + \frac{2}{5} \left(\frac{3}{8} - \frac{2}{5} \right)$$

Q.25 Represent the rational numbers $\frac{2}{3}, \frac{5}{4}$ and $1\frac{1}{2}$ on a single number line.

Q.26 Convert the following decimal numbers in the form of $\frac{p}{q}$.

a) $1.2\overline{35}$ b) $0.\overline{23}$ c) $2.0\overline{5}$
d) $2.\overline{1625}$ e) $3.12\overline{5}$

Q.27 Locate the following rational numbers on the number line

a. $0.5\overline{32}$ b. $1.1\overline{5}$

Q.28 Find 5 rational numbers between $\frac{1}{6}$ and $\frac{2}{5}$

Q.29 If $\frac{x}{3} + \frac{x}{5} = \frac{16}{15}$, find the rational number x .

Q.30 Prove that $\sqrt{13}$ is an irrational number.

Case Study Questions:

Q.31 A park is represented on a coordinate plane. The fountain is at (0,0), a bench at (6,0) and a tree at (4,3).

- In which quadrant is the tree located?
- Find the distance between tree and bench.
- Name the type of triangle formed by joining these points.

Q.32 A student observes fractions $\frac{3}{8}, \frac{7}{20}, \frac{5}{12}$ and tries to predict their decimal nature.

- Which of these will have terminating decimals?
- Which will be non-terminating repeating?
- State the condition for terminating decimal expansion.

Activity

Q.33 Create a colourful 3D or 2D square root spiral.

Q.34 Create a layout/map of your house on a Cartesian plane.

OR

Create a Rangoli/Art design on Cartesian plane.

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SUBJECT – SCIENCE

General Instructions

1. Do all the questions (Physics, Chemistry & Biology) in one notebook.
2. Write answers in a proper sequence.
3. Do neat & clean work.
4. Draw diagrams where ever required.

Section –A (Biology)

Objective Type Questions

- Q.1 Following are a few definitions of osmosis. Read carefully and select the correct definition
- (a) Movement of water molecules from a region of higher concentration to a region of lower concentration through a semipermeable membrane.
 - (b) Movement of solvent molecules from its higher concentration to lower concentration.
 - (c) Movement of solvent molecules from higher concentration to lower concentration of solution through a permeable membrane.
 - (d) Movement of solute molecules from lower concentration to higher concentration of solution through a semipermeable membrane.
- Q.2 Plasmolysis in a plant cell is defined as
- (a) break down (lysis) of plasma membrane in hypotonic medium.
 - (b) shrinkage of cytoplasm in hypertonic medium.
 - (c) shrinkage of nucleoplasm.
 - (d) none of them.
- Q.3 Which cell organelle plays a crucial role in detoxifying many poisons and drugs in a cell?
- | | |
|----------------------------------|---------------|
| (a) Golgi apparatus | (b) Lysosomes |
| (c) Smooth endoplasmic reticulum | (d) Vacuoles |

Assertion and Reason Questions

The following two questions consist of two statements – Assertion (A) and Reason (R). Answer these questions selecting the appropriate option given below:

- (a) Both A and R are true, and R is correct explanation of the assertion.
 - (b) Both A and R are true, but R is not the correct explanation of the assertion.
 - (c) A is true, but R is false.
 - (d) A is false, but R is true.
- Q.4 **Assertion :** Mitochondria and chloroplasts are semiautonomous organelles.
Reason : They are formed by division of pre-existing organelles and contain DNA but lack protein synthesizing machinery.
- Q.5 **Assertion :** A plant cell bursts if placed in water.
Reason : High turgor pressure causes bursting of plant cells.

Short Answer Type Questions

- Q.6 Name the organelles which show the analogy written as under
- (a) Transporting channels of the cell——
 - (b) Power house of the cell——
 - (c) Packaging and dispatching unit of the cell——
 - (d) Digestive bag of the cell——

- (e) Storage sacs of the cell——
- (f) Kitchen of the cell——
- (g) Control room of the cell——

- Q.7
- a) How do substances like carbon dioxide (CO₂) and water (H₂O) move in and out of the cell?
 - b) How does amoeba obtain its food?
- Q.8
- a) Name the two organelles in a plant cell that contain their own genetic material and ribosomes.
 - b) Why are lysosomes also known as “scavengers of the cells”?

Case Based Questions

Q.9 **Read the passage carefully and answer following questions.**

A cell is the fundamental structural and functional unit of all living organisms, discovered by Robert Hooke. It is the smallest unit capable of independent life, with all organisms composed of cells that arise from pre-existing ones. Cells contain membrane-bound organelles, such as the nucleus (containing DNA), mitochondria (energy production), and lysosomes (waste disposal), which work together to maintain life functions. They are classified into prokaryotes (lack a distinct nucleus) and eukaryotes (possess a nucleus).

- A) Why does the skin of your finger shrink when you wash clothes for a longtime?
- B) Why is endocytosis found in animals only?

Attempt either subpart C or D

C) A person takes concentrated solution of salt, after sometime, he starts vomiting. What is the phenomenon responsible for such situation? Explain.

OR

D) Name any cell organelle which is non membranous.

Long Answer Type Question

Q.10 How is a bacterial cell different from an onion peel cell? Write any three differences and draw neat and labelled diagrams.

Section-B (Chemistry)

Objective Type Questions

- Q1. A homogeneous mixture is one in which:
- a) Components are visible
 - b) Composition is uniform
 - c) Particles settle down
 - d) Light is scattered
- Q2. Mass by mass percentage is expressed as:
- a) $(\text{Mass of solute} / \text{Volume of solution}) \times 100$
 - b) $(\text{Mass of solute} / \text{Mass of solution}) \times 100$
 - c) $(\text{Volume of solute} / \text{Volume of solution}) \times 100$
 - d) $(\text{Mass of solvent} / \text{Mass of solute}) \times 100$
- Q3. Which of the following is a colloid?
- a) Salt solution
 - b) Blood
 - c) Sugar solution
 - d) Copper sulphate solution

Assertion and Reason Questions

For question numbers 4 and 5 two statements are given- one labeled Assertion (A) and the other labeled Reason (R). Select the correct answer to these questions from the codes (a), (b), (c) and (d) as given below:

- (a) Both A and R are true, and R is the correct explanation of the assertion.
- (b) Both A and R are true, but R is not the correct explanation of the assertion.
- (c) A is true, but R is false.
- (d) A is false, but R is true.

Q4. **Assertion (A):** Suspensions are heterogeneous mixtures and are unstable in nature.

Reason (R): The particles in a suspension are large enough to settle down on standing.

Q5. **Assertion (A):** Colloids cannot be separated by ordinary filtration methods.

Reason (R): The particle size of colloids is smaller than that of true solutions.

Short Answer Type Questions

Q6. Define concentration of a solution. Write formula for mass by volume percentage.

Q7. Sea water can be classified as homogeneous as well as heterogeneous mixture. Comment.

Q8. Why is air considered as a mixture ? Justify your answer with detailed reason.

Case Based Question

Q9. Milk is commonly considered a uniform liquid. However, when observed under a microscope, it is found that tiny fat globules are dispersed throughout water. These particles are not visible to the naked eyes but are present in the mixture.

- A. Identify the type of mixture milk represents.
- B. What property does milk show when a beam of light passes through it?

Attempt either subpart C or D

C. Why is milk not considered a true solution? Explain.

OR

D. Is there any difference between milk and muddy water? Explain.

Long Answer Type Question

Q10. Differentiate between solutions, suspensions, and colloids on the basis of:

- Nature of mixture
- Particle size
- Stability
- Filtration
- Tyndall effect

Section-C (Physics)

Objective Type Questions

Q.1 In uniform circular motion

- (a) Speed remains same
- (b) Speed changes
- (c) Direction of velocity changes continuously
- (d) Both (a) and (c)

- Q2. Retardation is also known as
 (a) Acceleration (b) Deceleration
 (c) Negative acceleration (d) Both (b) and (c)
- Q3. A particle is moving in a circular path of radius r . The displacement after half a circle would be
 (a) Zero (b) πr (c) $2r$ (d) $2\pi r$

Assertion and Reason Questions

The following two questions consist of two statements – Assertion (A) and Reason (R). Answer these questions selecting the appropriate option given below:

- (a) Both A and R are true, and R is correct explanation of the assertion.
 (b) Both A and R are true, but R is not the correct explanation of the assertion.
 (c) A is true, but R is false.
 (d) A is false, but R is true.

Q.4 **Assertion :** The object rotating in uniform circular motion flies off tangentially when string breaks.

Reason : The velocity of object is along the tangent at any point during circular motion.

Q.5 **Assertion :** Distance-time graph of a stationary object is a straight line parallel to time-axis.

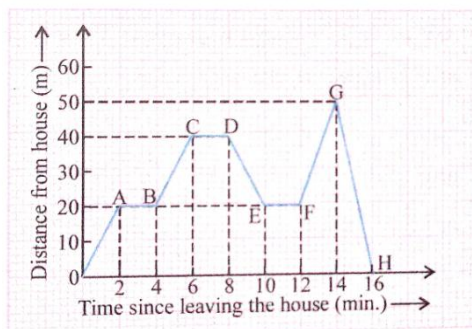
Reason : For a stationary object, distance does not change with time.

Short Answer Type Questions

- Q.6 A motor cyclist drives from A to B with a uniform speed of 20 Km/h and return back with a speed of 15 km/h. Find his average speed.
- Q.7 A motorbike moving with initial velocity 28 m/s and constant acceleration stops after travelling 98m. Find the acceleration of the motorbike and the time taken to come to a stop.
- Q.8 A farmer moves along the boundary of square field of side 20 m in 40 s. What will be the magnitude of displacement of the farmer at the end of 1 minute 20 seconds?

Case Based Question

Q.9 The following graph describes the motion of a girl going to meet her friend who stays 50 m from her house:



- (A) How much time she takes to reach her friend's house?
 (B) What is the distance travelled by the girl during the time- interval 0 to 12 minute?

Attempt either subpart C or D

(C) During which time – interval she is moving towards her house?

OR

(D) For how many minutes she was at rest, during the entire journey? Calculate the speed by which she returned home.

Long Answer Type Question

- Q.10 (i) Differentiate between distance and displacement
(ii) A bus increases its speed from 72 Km/h to 108 Km/h in 10 sec. Find its acceleration :
(iii) Differentiate between Speed and velocity
(iv) A metro train accelerates uniformly from rest to a velocity of 180 Km/h in half minute; find the value of acceleration of the train.

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SUBJECT – SOCIAL SCIENCE

Disaster Management

Objective

To help students understand different types of disasters, their causes, effects, and safety measures through research, creativity, and real-life awareness.

Section A: Project Work (Compulsory)

Topic: “Disaster Management and Preparedness”

Prepare a handwritten project file (10–15 pages) including:

1. Introduction

- What is a disaster?
- Types of disasters
- Natural (earthquake, flood, cyclone, drought)
- Man-made (fire, industrial accidents, war)

2. Causes of Disasters

- Natural causes (tectonic movements, climate change)
- Human causes (deforestation, pollution, urbanization)

3. Effects of Disasters

- Loss of life and property
- Environmental damage
- Economic impact

4. Disaster Management Cycle

- Mitigation
- Preparedness
- Response
- Recovery

5. Safety Measures

- Before, during, and after disasters

6. Case Study (Any one)

Choose one real disaster:

- 2013 Uttarakhand Floods

- 2004 Indian Ocean Tsunami
- Include:
 - ❖ Causes , Effects , Government response and Lessons learned

7. Conclusion

- Importance of awareness and preparedness

8. Instructions

- Use neat handwriting
- Add diagrams/pictures wherever possible
- Submit in a well-decorated file.
- Mention name, class, section, and roll number.

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SUJET : FRANÇAIS

Activité: Mon plan de voyage

Rahul a visité la Tour Eiffel. Maintenant, tu visites un autre lieu. Fais ton propre plan de voyage et explique ce que tu vas faire.

Rahul has visited the Eiffel Tower. Now, you are visiting another place. Make your own travel plan and explain what you will do. Also, add pictures of the places you visited.

Exemple:

Titre : Mon voyage

Je vais visiter la ville de Paris avec ma famille. Nous partons le matin en avion et nous arrivons à Paris vers midi. D’abord, nous allons à l’hôtel pour déposer nos bagages. Ensuite, nous visitons le musée du Louvre et nous admirons la célèbre Mona Lisa. Après cela, nous nous promenons dans la ville et nous prenons des photos.

À midi, nous déjeunons dans un restaurant français. L’après-midi, nous visitons la cathédrale Notre-Dame et nous faisons une promenade sur la Seine. Le soir, nous dînons dans un joli restaurant et nous retournons à l’hôtel. C’est un voyage très intéressant et agréable.

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SUBJECT – INFORMATION TECHNOLOGY

Create a Document in MS Word

Topic: “Uses of IT in Daily Life”

Include:

- Heading (bold, centered)
- At least 3 paragraphs
- Insert one image
- Use different font styles

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