



DELHI PUBLIC SCHOOL JAMMU
HOLIDAY HOMEWORK
SESSION- 2025-26
CLASS-IX



**"Vacation is not a break from learning, it's
a chance to explore the world beyond
textbooks."**



1. Journey Map: The Lost Child

Task: Draw a detailed map illustrating the journey of the lost child in the story *The Lost Child*.

Instructions:

- Use an A4 sheet to create your map.
- Mark all the important places mentioned in the story, such as the fair, the shop where the child wants toys, the spot where he feels lost, and where he finally reunites with his parents.
- Use arrows or dotted lines to show the path the child takes.
- Add small sketches or symbols (e.g., toy shop, trees, crowd) to make the map visually appealing and easy to understand.
- Label all places clearly.
- Write a brief note (3-4 lines) at the bottom explaining the significance of the journey in the story.

2. Designing a Book Jacket: 'The Road not taken'

➤ **Task:** Design an original book jacket for the poem *The Road Not Taken* by Robert Frost.

❖ **Instructions:**

- Use an A4 sheet or larger paper if preferred for your design.
- The book jacket must include these three parts:

❖ **Front Cover:**

- Include the **title of the poem** (you may create an original title if you want).
- The **author's name** (Robert Frost).
- A creative and relevant **cover art** that captures the poem's theme of choices and paths.

❖ **Spine:**

- Write the **title** and **author's name** clearly.

❖ **Back Cover:**

- Write a brief **synopsis or blurb** explaining what the poem is about & why readers should read it.
- Include a short **author's bio** (2-3 lines about Robert Frost).
- Use colours, designs, and fonts that make the jacket **eye-catching and balanced**.
- Make sure your design is **original** and not copied from existing covers.
- Ensure the book jacket conveys the **essence of the poem** and invites readers' curiosity.
- Write your **name, class, and section** on the back of the sheet.

❖ **RUBRICS FOR ASSESSMENT**

- Content Accuracy & Understanding
- Creativity & Originality
- Visual Appeal & Design
- Relevance to Theme
- Language & Expression

❖ **NOTE:**

- Both tasks should be done **neatly** with **clear labels** and **colourful illustrations** where appropriate.
- Use A4 sheets and submit your work organized in a folder or file **on the first day after vacations**.
- These will be part of your **English Portfolio** and carry internal assessment marks.
- Make sure your work is **original, well-presented, and reflects your understanding**.

 *Enjoy your holidays with learning, creativity, and reflection!* 

1. पुस्तक पठन एवं समीक्षा:

कोई एक हिंदी पुस्तक पढ़ें (जैसे – " पंचतंत्र की कहानियाँ", "अकबर-बीरबल की कहानियाँ" या "चंपक" जैसी पत्रिकाएं)।

पुस्तक पढ़ने के बाद उसकी समीक्षा लिखें:

- पुस्तक का नाम
- लेखक का नाम
- मुख्य पात्र
- कहानी का सारांश
- आपको यह क्यों पसंद आई/नहीं आई?

2. रचनात्मक लेखन:

I) अनुच्छेद लेखन: (लगभग 100-120 शब्द)

(i) "मेरी गर्मी की छुट्टियाँ"

(ii) "मेरा प्रिय त्योहार"

(iii) "पर्यावरण की रक्षा क्यों आवश्यक है?"

मूल्यांकन मानक (RUBRICS) :

- | | |
|----------------|-------------------------|
| * विषय की समझ | * संरचना और संगठन |
| * भाषा और शैली | * वाक्य रचना और व्याकरण |

II) पत्र लेखन:

अपनी दादी/नानी को पत्र लिखें और बताएं कि आप छुट्टियों में क्या-क्या कर रहे हैं ?

मूल्यांकन मानक(RUBRICS) :

- | | |
|--------------------|---------------------|
| * विषय और उद्देश्य | * संरचना और संगठन |
| * भाषा और शैली | * व्याकरण और वर्तनी |

III) रचनात्मक लेखन:

"यदि मैं पक्षी होता..." विषय पर अपने विचार लिखिए।

(सचित्र)

एक कविता लिखें – विषय हो सकता है: "गर्मी का मौसम", "नदी की यात्रा", या "मेरा सपना"।

मूल्यांकन मानक(RUBRICS) :

- * कल्पनाशीलता और सृजनात्मकता
- * भाषा और शैली

- * भावनाओं की अभिव्यक्ति
- * संरचना और संगठन

3. शब्द भंडार बढ़ाओ:

छुट्टियों के दौरान नए सीखे गए कम से कम 10 कठिन हिंदी शब्द लिखें और उनके अर्थ भी लिखें।
(प्रत्येक शब्द का एक वाक्य में प्रयोग करें।)

4. गतिविधि: रहीम के दोहे – अर्थ और अनुकरण

उद्देश्य:

छात्र रहीम के दोहों को समझें, उनके नैतिक संदेशों को आत्मसात करें और जीवन में लागू करने का प्रयास करें।

रहीम के कुछ प्रसिद्ध दोहे (नीचे दिए गए हैं)

दोहा 1:

रहिमन धागा प्रेम का, मत तोड़ो चटकाय।
टूटे से पिफर ना मिले, मिले गाँठ पर जाय।।

दोहा 2:

रहिमन निज मन की बिथा, मन ही राखो गोय।
सुनि अठिलैहैं लोग सब, बाँटि न लैहैं कोय।।

सामग्री:

- * कागज़, पेन/डायरी
- * बोर्ड/पोस्टर (यदि समूह प्रस्तुति हो)

चरण:

दोहों का वाचन:	अर्थ पर चर्चा:	रचनात्मक कार्य:	प्रस्तुति:
<ul style="list-style-type: none">समूह के सभी सदस्य मिलकर रहीम के दोहे पढ़ें।	<ul style="list-style-type: none">हर दोहे का अर्थ मिलकर समझें।यह विचार करें कि दोहे का संदेश आज के जीवन में कैसे लागू होता है।समूह के हर सदस्य को बोलने का अवसर दें।	<ul style="list-style-type: none">दोहे से संबंधित एक चित्र बनाएँ या छोटा संवाद लिखें।कोई घटना साझा करें जिसमें आपने दोहे का भाव अनुभव किया हो। <p>काल्पनिक घटना भी हो सकती है।</p>	<ul style="list-style-type: none">हर समूह अपना कार्य कक्षा/समूह के समक्ष प्रस्तुत करें।सबसे रचनात्मक प्रस्तुति को सम्मानित करें।

नोट –

- ❖ गृह कार्य Practical sheets में लिखकर एक फाइल तैयार कीजिए और उसके प्रथम पृष्ठ पर अपना नाम, विषय, कक्षा, शिक्षिका का नाम आदि जानकारी अवश्य लिखिए।
- ❖ पढ़ाए गए पाठ्यक्रम का अभ्यास कीजिए तथा पुस्तिका(Copy) पर भी पाठ्यपुस्तक के प्रश्न कीजिए।

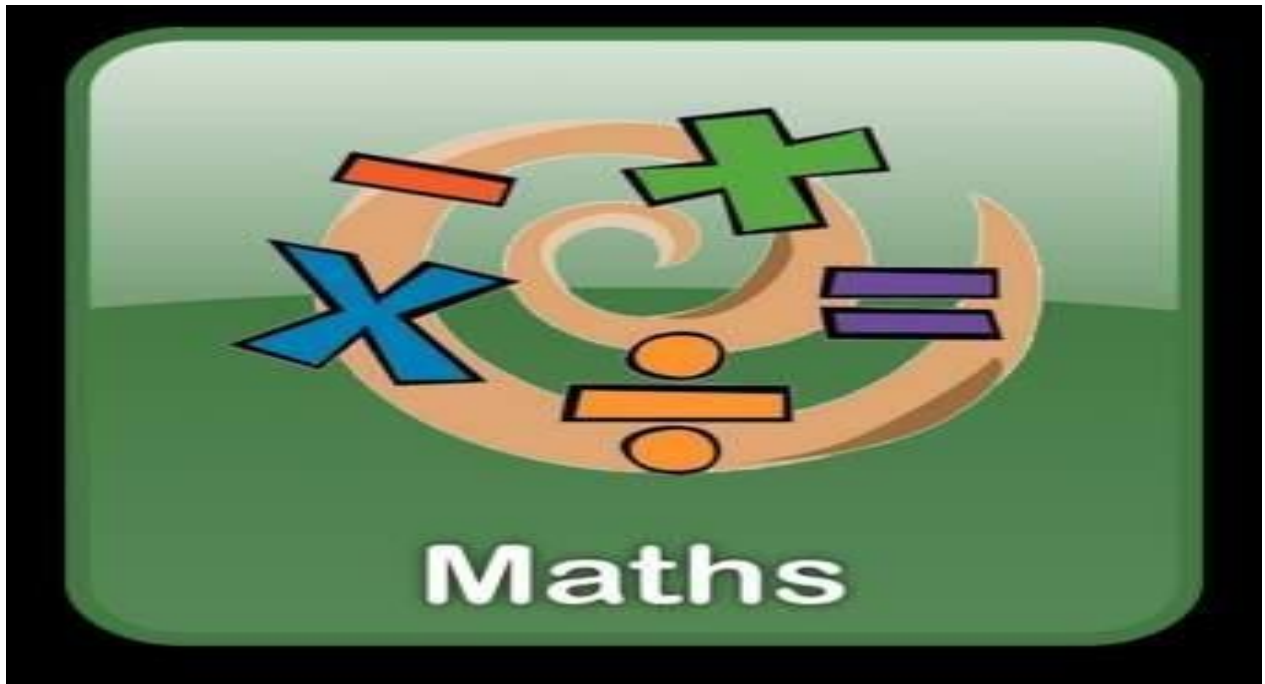
ग्रीष्मावकाश गृहकार्य (मूल्यांकन के मानदंड)

- * उत्कृष्ट (A+): विषय, भाषा, संरचना, और व्याकरण सभी पहलुओं में उत्कृष्टता है।
- * अच्छा (A): अधिकांश पहलुओं में अच्छा प्रदर्शन है, लेकिन कुछ क्षेत्रों में सुधार की आवश्यकता है।
- * संतोषजनक (B+): कुछ पहलुओं में संतोषजनक प्रदर्शन है, लेकिन कई क्षेत्रों में सुधार की आवश्यकता है।
- * असंतोषजनक (B): अधिकांश पहलुओं में असंतोषजनक प्रदर्शन है और व्यापक सुधार की आवश्यकता है।

ग्रीष्मावकाश गृह कार्य (2025 -26)

DELHI PUBLIC SCHOOL, JAMMU
SESSION-2025-2026
HOLIDAY HOMEWORK

CLASS: IX
SUBJECT: MATHEMATICS



Note:

- i. Do any two activities + all questions given below.
- ii. Make a file with proper submission format given below

1. Number System

Activity: *Number Line Art*

- **Objective:** Represent rational and irrational numbers on a number line creatively.
- **Instructions:**
 - Draw a large number line on a chart paper.
 - Mark and label rational numbers (fractions, integers) and approximate locations of irrational numbers like $\sqrt{2}$, $\sqrt{3}$, π , etc.
 - Use colored threads or strings to visually connect square roots to squares.
 - Add a decorative theme (e.g., nature, city skyline) integrating the number line.
- **Learning Outcome:** Understanding the placement of different types of numbers.

2. Polynomials

Activity: *Polynomial Tree*

- **Objective:** Identify and classify polynomials based on degree and terms.
 - **Instructions:**
 - Draw a tree on paper or chart.
 - Write different polynomial expressions on colored leaves.
 - Create branches labeled "Monomial", "Binomial", "Trinomial", and "Others".
 - Paste each leaf on the correct branch.
 - **Extension:** Evaluate a few polynomials at given values of the variable.
 - **Learning Outcome:** Polynomial classification and evaluation.
-

3. Coordinate Geometry

Activity: *Design a City Map*

- **Objective:** Plot points in a Cartesian plane and understand coordinates.
 - **Instructions:**
 - Create a grid using graph paper.
 - Mark various city elements (school, park, hospital, house, etc.) at given coordinates.
 - Write the coordinates for each.
 - Add a small story or route plan (e.g., shortest path from home to park).
 - **Learning Outcome:** Visualization of coordinates and plotting skills.
-

4. Linear Equations in Two Variables

Activity: *Pair of Pants*

- **Objective:** Graph and interpret linear equations.
 - **Instructions:**
 - Choose 3 different linear equations and draw their graphs on the same Cartesian plane.
 - Use colored lines for each.
 - Create a fun title like "Pant Legs of Algebra" if the lines form interesting patterns.
 - Find and highlight intersection points.
 - **Extension:** Create a real-life context for one equation (e.g., cost vs. quantity).
 - **Learning Outcome:** Graphical understanding and real-life linkage.
-

5. Lines and Angles

Activity: *Angle Detective Game*

- **Objective:** Identify and measure various angles formed by intersecting lines.
 - **Instructions:**
 - Draw intersecting lines on a cardboard sheet to form different angles.
 - Color-code angles: acute, right, obtuse, straight.
 - Use wool/thread and split pins for a rotating arm to act as an angle measurer.
 - Label vertically opposite, adjacent, complementary, and supplementary angles.
 - **Learning Outcome:** Angle identification and relationships.
-

Submission Format Suggestions:

- Each activity should include:

- A title
- Aim
- Material used
- Steps followed
- Learnings/outcomes
- Photographs (if done practically)

ANSWER THE FOLLOWING QUESTIONS IN YOUR CLASSWORK NOTEBOOK:

1. If a transversal intersects two lines such that bisectors of pairs of corresponding angles are equal, then the two lines are parallel.
2. If two lines intersect then vertically opposite angles so formed are equal.
3. If two lines intersect such that one angle is a right angle. Show that remaining three angles are also right angles
4. If two lines are intersected by a transversal then show that bisectors of alternate interior so formed are parallel.
5. $PQ \parallel RS$, M is a point in between PQ and RS, X and Y are points on PQ and RS respectively such that $\angle MXQ = 135^\circ$ and $\angle MYR = 40^\circ$, find $\angle XMY$
6. Give examples of Euclid's Axioms
7. If $a + b + c = 5$ and $ab + bc + ca = 10$, Find $a^3 + b^3 + c^3 - 3abc$.

8. IF $a + b = 10$ & $a b = 16$, find $a^2 - a b + b^2$ and $a^2 + a b + b^2$.
9. IF $a^2 + b^2 + c^2 = 250$ & $a b + b c + c a = 3$, find $a + b + c$.
10. IF $p = 2 - a$, prove that $a^3 + 6ap - 8 = 0$
11. Find 'a' and 'b', if $x=0$ and $x=-1$ are the zeroes of $p(x) = 2x^3 - 3x^2 + ab + b$
12. What should be added to $x^3 + 3x^2 - 12x + 19$ so that the result is exactly divisible by $x^2 + x - 6$.
13. If $x + 1/x = 11$, find the value of (i) $x + \frac{1}{x}$ (ii) $x^3 + \frac{1}{x^3}$ —
14. Find 3 rational and 3 irrational number between 0 and -1
15. Represent $\sqrt{3}$ on number line.
16. Express in the form of p/q
(i) $0.2\overline{51}$. (ii) $0.00\overline{321}$

RUBRICS

S. No.	Topic	Score	Skill
1	2 Activities (5 marks each)	$5 \times 2 = 10$ mark	Creativity
2	Number system (Q. No. 13,14,15,16)	2.5 marks	Understanding
3.	Polynomials (Q. No.7,8,9,10,11)	2.5 marks	Understanding
4.	Lines and angles. (Q. No.1,2,3,4,5)	2.5 marks	Application
5.	Euclid's geometry. (Q. No. 6)	2.5 marks	Application

DELHI PUBLIC SCHOOL, JAMMU
SESSION 2025-26
HOLIDAYS HOMEWORK
CLASS-IX
SUBJECT-SCIENCE

PHYSICS

Newton's laws of motion are fundamental to understanding sports mechanics. They explain how forces affect motion, including inertia, acceleration, and action-reaction. Newton's law of motion are an inherent property of our everyday life. Starting from the beginning of the day, till the end, Newton's law finds their application a number of activities we do.

To prepare a Comic Book on "Laws of Motion"



What to Do:

* Create a short comic or graphic novel where characters use Newton's laws in everyday scenarios

* A superhero who uses all these concepts derived from Newton's law like inertia, momentum and action-reaction to save the day.

***Material to be used: Drawing sheets, colored pens, comic pictures, colors.**

The Comic Book should include

- 1. Statement of each law of Newton**
- 2. Explanation of the concept like inertia, momentum and action- reaction.**
- 3. Observe the applications in terms of each law.**

Note: The activity should be done manually and it must include proper acknowledgement, certificate and bibliography.

RUBRICS

- | | |
|---|------------------|
| 1. Accuracy of Content. | (6 marks) |
| 2. Creativity and Originality | (4 marks) |
| 3. Visual Appeal and Neatness. | (4 marks) |
| 4. Relevance to Everyday Life / Applications | (3 marks) |
| 5. Documentation and Effort. | (3 marks) |

BIOLOGY

Tissue Album Project

Objective:

To creatively explore and represent different types of plant and animal tissues through an illustrated and well-organized album.

Instructions:

- 1. Format of the Album:**
 - Use a small scrapbook
 - Each page should focus on one tissue type.
 - Organize your album into two sections:
 - A. Plant Tissues B. Animal Tissues



2. For Each Tissue Page, Include:

- Name of the tissue
- Type: (Plant or Animal)
- Category: (e.g., simple permanent, complex permanent, muscular, connective, etc.)
- Structure: Short explanation of how the tissue is built
- Function: What it does in the plant/animal body
- Location: Where it is found
- Diagram: Neat hand-drawn or printed image (label it clearly)
- Fun Fact (Optional): Any interesting or real-life example (e.g., “Xylem is what makes wood!”)

3. Cover at least the following tissues:

Plant Tissues:

- Parenchyma
- Collenchyma
- Sclerenchyma
- Xylem
- Phloem

Animal Tissues:

- Epithelial Tissue (any type: squamous, cuboidal, etc.)
- Muscular Tissue (any type: striated, smooth, or cardiac)
- Connective Tissue (like blood, bone, ligament, tendon, cartilage)
- Nervous Tissue

4. Album Cover Page:

- Title: “Tissue Album – Class 9”
- Your Name and Roll Number

- A small hand-drawn or printed collage of plant and animal cells/tissues

5. Presentation Tips:

- Use headings and colored pens for neatness
- Label all diagrams clearly
- Keep your language simple and to the point
- Be creative but scientifically correct!

RUBRICS

Content Accuracy	5marks
Coverage of Required Tissues	3marks
Organization and Format	3marks
Diagrams (Hand-drawn or Printed)	3marks
Creativity and Presentation	3marks
Album Cover Page	2marks
Bonus: Fun Facts/Examples (Optional)	1marks

INSPIRE AWARDS

Observe your surroundings (home, school, village, city) and identify a real-life problem that people face. Think of an Innovative Solution. Come up with a new idea or a simple innovation that could solve the problem.

Make sure the idea is original, useful, and practical. Prepare a Write-up (100–150 words) of the problem and your proposed solution or innovation on assignment sheets and submit in a file.

Tips for Students:

Be original. Do not copy from internet/books.

Take inspiration from daily life – water saving, pollution, farming, transport, energy etc.

Selection of ideas should be based on novelty, social applicability, environment friendliness, user-friendliness and should have comparative advantage over existing similar technologies.

Note: Please note that best five entries will be entitled to get enrolled from school for INSPIRE (Innovation in Science Pursuit for Inspired Research) Award scheme which is one of the flagship programmes of Department of Science & Technology (DST), Government of India.

DELHI PUBLIC SCHOOL JAMMU

Holiday Homework

2025-2026

Class: IX

Sub: Social Science (History)

Forests in India have been home to tribal populations since time immemorial. The life and economy connected with the forests. Development has had a serious impact on the lives of tribals across the region.



ACTIVITY-In the light of the given statement prepare a paper presentation incorporating the below :

1. Shifting cultivation and overgrazing are a threat to the green cover. How?
(2)
2. Development and climate change has led to marginalization of the forest communities and impact of industrialization on the tribal population of India.
(3)
3. Case Study- Draw a contrast between the lives of present day tribal communities of Lakshadweep India.
(5)
4. Suggest the ways in which the tribals can follow sustainable living practices to live in harmony. (2)
5. How can civilized societies like that of metropolitan city of Delhi, learn sustainability lessons.
(3)

Steps involved in the conduct of the project: Students may work upon the following lines as suggested:

1. Present your work on regular size chart paper.
2. Information should be strictly handwritten.
3. You can make use of maps, newspaper articles, illustrations and statistical data to corroborate.
4. Bibliography to be mentioned at the back.

DELHI PUBLIC SCHOOL JAMMU
Session 2025-26
Holiday Homework

Class: - 9th

Subject: - Artificial Intelligence (417)

Q1 Read the below paragraph and answer the questions in your own words

AI is a form of intelligence; a type of technology and a field of study. AI theory and development of computer systems (both machines and software) are able to perform tasks that normally require human intelligence. Artificial Intelligence covers a broad range of domains and applications and is expected to impact every field in the future. Overall, its core idea is building machines and algorithms which are capable of performing computational tasks that would otherwise require human like brain functions.

1. What do you think Artificial Intelligence is?
2. What do you want to learn about AI?
3. Can complex computer program copy human behaviour, which is often illogical and unpredictable?

Give reason to support your answer.

Q2 Activity based questions. (Question is divided into two parts)

Part I

Fun with AI Tools – Try and Reflect (With parental supervision, try one of the following AI tools)

- a. **Chat GPT** (ask a few questions)
- b. **Google Lens** (identify plants/objects)
- c. **Quick, Draw!** by Google

Part II

Write the answers after using AI tools that are mentioned in part I

- a. What did you analyse after trying **Chat GPT**?
- b. What did the AI do in **Google Lens**?
- c. Were you surprised by the results of **Quick, Draw**?

Q3 General Understanding Questions

1. What do you think the world would be like if robots and AI did all the work?
2. Can a machine have emotions like humans? Why or why not?
3. If you could build your own robot, what would you make it do?

Q4 Activity Based question

1. Imagine you are designing a smart home (bedroom, kitchen, bathroom etc.) what smart features you would include and why? (Use Canva to draw images)
2. Visit the link <https://www.moralmachine.net> (After playing this game write how AI works in this game?)