

Winter Holidays Homework 2025-26

Class IX

	ENGLISH
	<p>General Instructions</p> <ul style="list-style-type: none">• Attempt ANY TWO activities from each section.• Work must be done on A4 size sheets• Neatness, originality and clarity will be assessed.• Use drawings, charts or creative layouts wherever possible. <p>Books: Beehive & Moments</p> <p>SECTION A: BEEHIVE (Prose & Poetry)</p> <p>Activity 1: Character Insight Journal (Prose)</p> <p>Choose any ONE character from <i>Beehive</i> (for example: Kezia, the Little Girl's father, the Happy Prince, Evelyn Glennie, Santosh Yadav, etc.).</p> <ul style="list-style-type: none">• Write a descriptive paragraph (100–120 words) about:<ul style="list-style-type: none">• The character's personality,• Challenges faced,• one lesson you learnt from the character. <p>Activity 2: Poem to Art (Poetry)</p> <p>Choose any ONE poem from <i>Beehive</i>.</p> <ul style="list-style-type: none">• Illustrate the central idea or theme of the poem through:<ul style="list-style-type: none">• A poster, collage, or sketch.• Write a short explanation (80–100 words) describing:<ul style="list-style-type: none">• The poet's message,• How your artwork represents it. <p>Activity 3: Literary Devices Explorer</p> <ul style="list-style-type: none">• Select any TWO poems from <i>Beehive</i>.

- Identify and explain **two poetic devices** from each poem (imagery, metaphor, personification, alliteration, etc.).
- Support your answers with **lines from the poems**.

SECTION B: MOMENTS (Supplementary Reader)

Activity 4: Story Reflection (Moments)

Choose any **ONE story** from *Moments*.

- Write a **reflective paragraph (120–150 words)** on:
 - The main conflict in the story,
 - How it was resolved,
 - What moral or message the story conveys.

Activity 5: Creative Twist

Pick any **ONE story** from *Moments* and do **one** of the following:

- Write an **alternate ending**, OR
- Create a **comic strip (8–10 panels)** highlighting the major events.

(Add a brief explanation if you choose a comic strip.)

“Read not to learn facts, but to understand life.”

HINDI

1. *कार्य A4 आकार की शीट पर किया जाना चाहिए।
 *साफ-सफाई, मौलिकता और स्पष्टता का मूल्यांकन किया जाएगा।
 निम्नलिखित में से किन्हीं तीन विषय 100-150 शब्दों में अनुच्छेद लिखिए

- स्कूल में एक दिन की मज़ेदार कहानी
- अगर जानवर बात कर पाते तो?
- एक सुपरहीरो जो बहुत आलसी है
- जब मेरे जूते बोलने लगे

2. निम्न विषयों पर विज्ञापन बनाइए

- पुस्तक मेले का विज्ञापन
- जल संरक्षण अभियान
- सामाजिक जागरूकता विज्ञापन

	MATHS
	<p><u>Complete the following assignment in the Maths Notebook:</u></p> <p>1. The lengths of the sides of a triangle are in the ratio 3:4:5, and its perimeter is 24 cm. Find the area of the triangle using Heron's formula.</p> <p>2. The lengths of the sides of a triangle are 6 cm, 8 cm, and 10 cm. If each side of the triangle is doubled, find the area of the new triangle using Heron's formula.</p> <p>3. Find the total cost of leveling the ground in the form of a triangle with sides of 16m, 12m and 20m at Rs. 4 per sq. meter.</p> <p>4. Find the area of a given triangle, two sides of which are 8cm and 11cm, and the perimeter is 32cm</p> <p>5. The perimeter of a given triangular ground is 420m, and its sides are in the ratio 6:7:8. Find the area of the triangular ground.</p> <p>6. Three angles of a quadrilateral are equal and the fourth angle is equal to 144°. Find each of the equal angles of the quadrilateral.</p> <p>7. Prove that a diagonal of a parallelogram divide it into two congruent triangles.</p> <p>8. ABCD is a rhombus. Show that diagonals AC bisects $\angle A$ as well as $\angle C$ and diagonal BD bisects $\angle B$ as well as $\angle D$.</p> <p>9. The radius of a circle is 13 cm and length of one of its chords is 24 cm. Find the distance of the chord from the centre.</p> <p>10. If the non-parallel sides of a trapezium are equal, prove that it is cyclic.</p> <p>Also, prepare a list for each of the following:</p> <p>i. All special properties of all special quadrilaterals.</p> <p>ii. Angle properties in a circle and a cyclic quadrilaterals</p>
	SCIENCE

Complete the following assignment in the SCi Notebook:

1. Calculate wavelength of sound having frequency 170 Hz (speed = 340 m/s).
2. A sound produces 5 echoes in 1 second. Find the distance of the reflecting surface.
3. An element has an atomic number 12 and mass number 26. Draw a diagram showing the distribution of electrons in the orbits and the nuclear composition of the neutral atom. If this element X combines with another element Y whose electronic configuration is 2,8,7, what will be the formula of the compound thus formed?
4. Name the Scientists who have contributed the following towards the understanding of the atomic structure.
 - i) Discovery of electrons ii) Canal rays iii) Concept of nucleus
 - iv) Stationary orbits v) Indivisibility of atoms vi) Neutron
5. a) A longitudinal wave of wavelength 1cm travels in air with a speed of 330 m/s.
b) Calculate the frequency of the wave. Can this be heard by normal humans?
6. When we put our ear to a railway track, we can hear the sound of an approaching train even when the train is far off but its sound cannot be heard through air. Why?
7. Write chemical formula
 - a) lead nitrate b) washing soda
 - c) magnesium(II) hydrogen carbonate d) mercury(II) chloride
8. Write a short note on Organic farming(100-120 words).
9. The gravitational force between two objects is 100 N. How should the distance between the objects be changed so that the force becomes 50 N?
10. a) The weight of an object on the surface of the moon is 1.67 N and its mass on its surface is 1 kg. Calculate its weight and mass on the surface of earth. (g on earth =10 m/s²)
b) The volume of a 25 g of a substance is 50 cm³. If the density of water is 1 g/cm³ will the substance float or sink?

	SOCIAL SCIENCE
1.	<p>Poster Making Topic: Save Forests Instructions: Prepare a case study on any forest that is currently becoming endangered. Must include a relevant self-made picture and a short write-up on an A4 size sheet.</p> <p>2. Practice Map Works of the syllabus.</p> <p>3. Revise all the chapters for final exams.</p>
	ARTIFICIAL INTELLIGENCE
1.	<p>Case Study 1: Smart Dustbin System</p> <p>A municipality installs AI-based smart dustbins that use sensors to detect waste levels and send alerts when the bins are full.</p> <ol style="list-style-type: none"> 1. Identify the problem addressed by this AI system. 2. Mention two stakeholders involved. 3. Name the type of data collected by the system. 4. Which two stages of the AI Project Cycle are most important here? 5. Write one ethical or environmental benefit of this AI system. <p>OR</p> <p>Case Study 2: AI for Traffic Management</p> <p>A city uses AI-enabled cameras to monitor traffic signals. The system adjusts signal timing based on traffic density to reduce congestion.</p> <ol style="list-style-type: none"> 1. What is the goal of this AI system? 2. Identify the input data used by the AI system. 3. Which AI Project Cycle stage involves analysing traffic data? 4. Write one advantage of using AI in traffic control. 5. Suggest one limitation of this AI system. <p>3. Write Python programs to-</p> <ul style="list-style-type: none"> • Input two numbers and Display their sum, difference and product • Input a number and Check whether the number is even or odd • Input marks of a student and Display: "Pass" if marks are 40 or above "Fail" otherwise

	<ul style="list-style-type: none"> • Print numbers from 1 to 10 using loops <p>Submit the work at https://forms.gle/F8pzTAak2U45fyCs9 latest by 31st Jan. 2026.</p>
	FINANCIAL MARKETS
Q1.	<p><u>Complete the following questions neatly on A4 size sheets and submit it on or before 18th January 2026.</u></p> <p>The Financial Planner in You</p> <p>Imagine you are helping your family plan finances for the next year.</p> <p>Task: Prepare a simple financial plan including:</p> <ul style="list-style-type: none"> • Income • Expenses • Savings • Goals <p>Also explain why financial planning helps families stay stress-free.</p>
Q2.	<p>If I Didn't Save</p> <p>Imagine a situation where you never saved money during your childhood and teenage years.</p> <p>Task: Write a short paragraph explaining:</p> <ul style="list-style-type: none"> • What problems you might face in adulthood • How <i>systematic savings</i> could have changed your situation <p>(Use at least 3 real-life examples.)</p>
Q3.	<p>Bank Detective</p> <p>Your younger cousin asks:</p> <p>“Why can't we keep all our money at home instead of a bank?”</p> <p>Task: Answer your cousin by explaining:</p>

	<p>a. What a bank is</p> <p>b. Any three services of a bank</p> <p>c. Why banks are safer than keeping cash at home</p> <p>Saving vs Spending Dilemma</p> <p>You receive ₹3,600 for winter holidays.</p> <p>Option A: Spend ₹300 every week</p> <p>Option B: Save ₹2,400 and spend the rest</p> <p>Task:</p> <ol style="list-style-type: none"> 1. Calculate how much money remains after 12 weeks in both cases 2. Analyze which option supports systematic savings better 3. Justify your answer logically <p>Expense Elimination Test</p> <p>You must reduce your monthly expenses by 20%.</p> <p>Task:</p> <ol style="list-style-type: none"> 1. Identify which expenses can be reduced or eliminated 2. Explain which expenses cannot be reduced and why 3. Show how this decision impacts savings and goal
--	--