DAV Public School, Kota
Holiday Homework - 2026
Class - IX

Subject – English

Roll No.	Homework
1 to 8	Find out about the different styles of indigenous pottery of your region and other regions of your country. Make a collage (A4 size sheet representing different styles of pottery practised in many parts of our country.
9 to 16	Read the story 'Quality' by John Galsworthy(Page 53 of book- 'Kaveri'). Write it's review in your own words. Use pictorial description also.
17 to 24	Make a poster (A4 size sheet) highlighting the decline of traditional crafts and skills vs. industrialization and mass- produced goods.
25 to 32	Pottery is practised in many parts of our country and each region has its unique style. Design your own pottery style inspired by two Indian regions. Draw and describe it. (A4 size sheet)
33 onwards	You must have read stories in any language about the value of handicrafts and art. Make a collage showing handmade products and factory-made products side by side. (A4 size sheet) Review how they are different from each other.

Subject – Hindi

Roll No.	Homework
1 to 8	प्रेमचंद की कहानी 'दो बैलों की कथा' को आधार बनाकर हीरा और मोती के मध्य स्वतंत्रता के महत्व पर लगभग 100 शब्दों का संवाद लिखिए।
9 to 16	'लक्ष्मण-परशुराम संवाद' (तुलसीदास रचित) को लय एवं भाव के साथ पढ़ना सीखिए तथा नाट्य मंचन के अनुसार उसके मुख्य संवाद लिखिए।
17 to 24	"अनुभवों की अमूल्य धरोहर" गतिविधि के अंतर्गत अपने दादा-दादी अथवा नाना-नानी का विस्तृत साक्षात्कार लीजिए तथा उनके जीवन अनुभवों को प्रश्नोत्तर शैली में लिखिए।
25 to 32	लगभग 20 मुहावरों का संग्रह कीजिए तथा उनके अर्थ एवं वाक्य प्रयोग लिखिए।
33 onwards	ग्रीष्मकालीन भ्रमण / यात्रा संस्मरण अथवा किसी प्रेरणादायक पुस्तक की लगभग 300 शब्दों में समीक्षा लिखिए।

आवश्यक निर्देश:

- अपने कक्षा अनुक्रमांक के अनुसार प्रश्न करें।
- A4 आकार के पृष्ठों पर कार्य करें।
- कार्य में रचनात्मकता दिखाएँ।

Subject – Sanskrit

Roll No.	Topics
1 to 8	कोई पांच श्लोक हिंदी अर्थ सहित सुंदर लिखावट में चार्ट पर लिखें ।
9 to 16	स्वर व व्यंजन संधि के 10 -10 उदाहरण विच्छेद के साथ लिखें । On flash card (स्फोरक पत्र पर)
17 to 24	संस्कृत के पांच सुविचार यथा- आलस्यं ही मनुष्याणां शरीरस्थो महान् रिपु चार्ट पर लिखें ।
25 to 32	कोई दो चित्र वर्णन पांच वाक्यो मे चार्ट पेपर पर सचित्र प्रस्तुतिकरण करे । या किन्ही 10 हिंदी वाक्यो के कर्ता एवं क्रिया का प्रयोग करते हुए संस्कृत में अनुवाद करें चार्ट पेपर पर लिखें ।
33 onwards	कोई 10 धातु रूपों के प्रत्येक लकार के पुरुष व वचन फ्लैश कार्ड पर लिखें । In creative way

Subject – Mathematics

- Do Homework in Maths Notebook.

Roll No.	Holiday Homework
1 to 8	**CASE STUDY 1: Number Systems (The Road Trip)** **Scenario:** Rohan is tracking his road trip progress on a GPS that uses different real numbers for fuel and distance. He sees both clean integers and complex repeating decimals. **Q1.** Express $0.4\overline{21}$ as a fraction in the p/q form, where p and q are integers and q≠ 0 **Q2.** Find three rational numbers between 1.41 and 1.73. **Q3.** If a = 5 + $\sqrt{3}$, find the value of the expression: a^2- 10a + 22. **Q4.** Calculate the product of the expressions (5 + 2$\sqrt{3}$) and (5 -2$\sqrt{3}$) • Do End of Chapter Exercises of chapter 1, 2 from NCERT book
9 to 16	**CASE STUDY 2: Number System Concepts (Lab Work)** **Scenario:** Priya is in a chemistry lab measuring mass for an experiment. She needs to use the laws of exponents and radicals to simplify her mixture calculations. **Q1.** Find the value of $(64)^{1/2}$+$(125)^{1/3}$ **Q2.** Simplify the radical expression: $\sqrt{18}$+$\sqrt{50} - \sqrt{98}$ Q.**3** Solve for n in the exponential equation: $9^{n-2} = 3^{n+1}$ **Q4.** If a = 2 and b = 3, find the value of $(a^b + b^a)^{-1}$ • Do End of Chapter Exercises of chapter 1, 2 from NCERT book
17 to 24	**CASE STUDY 3: Polynomials (The Photo Frame)** **Scenario:** Anjali wants to frame a rectangular photo. The photo has a **length of (x + 5) cm** and a **width of (x + 2) cm**. **Q1.** Write a polynomial P(x) in standard form that represents the area of the photo. **Q2.** If the value of x is 10 cm, what is the actual area of the photo in cm²? **Q3.** If she swaps to a square photo with a side of (x + 3) cm, what is the new polynomial for that area? **Q4.** Find the value of the square's area if x = 5 cm. • Do End of Chapter Exercises of chapter 1, 2 from NCERT book
25 to 32	**CASE STUDY 4: Polynomials (Graphic Design)** **Scenario:** A designer is creating logos using algebraic curves. She uses two specific polynomials for the borders: **f(t)= $4t^2 - 12t$+5 and g(m)= $m^3 - 27$** **Q1.** Factorize both g(m) and f(t) using the appropriate identities or methods. **Q2.** Evaluate the values of g(3) and f(-1). **Q3.** Use the identity (a - b)(a + b) = $a^2 - b^2$ to solve 97 X 103 **Q4.** If x + y = 10 and xy = 21, calculate the value of $x^3 + y^3$ • Do End of Chapter Exercises of chapter 1, 2 from NCERT book
33 onwards	**CASE STUDY 5: Coordinate Geometry (City Mapping)** **Scenario:** A city planner is mapping out a new neighborhood on a coordinate grid. He marks the location of four important landmarks: **Library (2, 3)**, **Park (-4, 3)**,**School (-4, -2)**, and **Hospital (2, -2)**. **Q1.** In which quadrants do the Library and the School lie? **Q2.** If the planner connects the points L, P, S, and H in order, what geometric shape is formed? **Q3.** What is the vertical distance (number of units) between the Library (L) and the Hospital (H)? **Q4.** Find the coordinates of the point where the x-axis and y-axis intersect. • Do End of Chapter Exercises of chapter 1, 2 from NCERT book

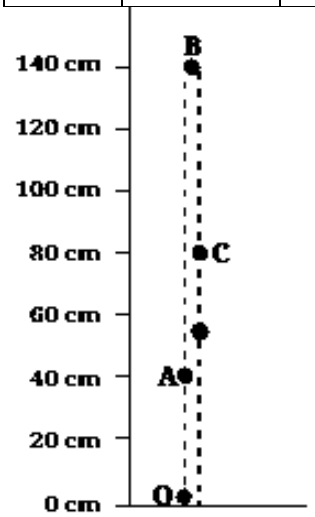
Subject – Chemistry

Roll No.	**Homework**
1 to 8	Mini Chemistry Dictionary Prepare a handmade booklet with important terms: Atom Molecule Element Osmosis Diffusion Valency(add 5 more terms of your choice) Add small diagrams and examples.
9 to 16	Separation of Mixtures Chart Draw methods like: Crystallization Distillation Paper chromatography Separating funnel
17 to 24	Chemistry Crossword Puzzle Create your own crossword using chemistry terms: Atom Electron Molecule Diffusion Sublimation(use more words of your choice)
25 to 32	Poster on “Save Environment with Chemistry” Topics: Green chemistry Pollution control Recycling Eco-friendly products Use slogans and drawings.
33 onwards	Chemistry Around the House Make a list of 20 chemical substances found at home. Example: Salt — Sodium Chloride Vinegar — Acetic Acid Baking Soda — Sodium Bicarbonate Paste pictures or draw them.

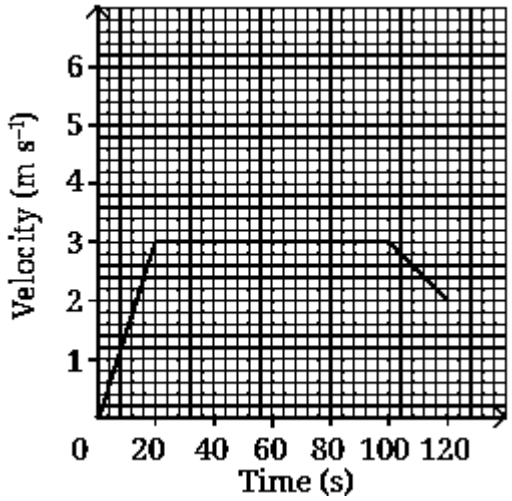
Subject – Biology

Roll No.	Homework
1 to 8	Biological Scrapbook: Create a scrapbook or photo essay documenting local biodiversity, including different plants, animals, or insects.
9 to 16	Mini Biology Dictionary Prepare a handmade booklet with important terms: Cell Cell Organelle Tissue Osmosis Cell devision (add 5 more terms of your choice) Add small diagrams and examples.
17 to 24	Chart of cell organelles Journey Inside the Cell Create a colorful chart showing the main cell organelles and their functions.
25 to 32	Biology Comic Strip Draw a comic strip that tells a story of a cell for example;a day in the life of a white blood cell.
33 onwards	Herbarium File Collect and paste different leaves with: Scientific name Common name Uses Leaf venation Decorate each page creatively.

Subject – Physics

<table>
<tr><th>Roll No.</th><th>Homework</th></tr>
<tr><td>1 to 8</td><td>
Question 1.
1. As shown in Fig. a ball is thrown vertically upwards from O. It moves up straight till B and then falls back to O. Can this be considered a motion in a straight line?
2. For this motion, fill up the values in Table
Table: Distance travelled and displacement of the ball
<table>
<tr><th>S. No.</th><th>Position</th><th>Total distance travelled by the ball from O till that position</th><th>Displacement of the ball from O till that position</th></tr>
<tr><td>1</td><td>O</td><td>0 cm</td><td>0 cm</td></tr>
<tr><td>2</td><td>A</td><td>40 cm</td><td>40 cm in upward direction</td></tr>
<tr><td>3</td><td>B</td><td></td><td></td></tr>
<tr><td>4</td><td>C</td><td></td><td></td></tr>
<tr><td>5</td><td>O</td><td></td><td></td></tr>
</table>


3. Analyze the data filled in Table and choose which of the following is true for displacement:
(i) It is never zero.
(ii) Its magnitude can be greater than the total distance travelled.
(iii) Its magnitude is less than or equal to the total distance travelled.
(iv) Its magnitude is less than the total distance travelled in all cases.
</td></tr>
<tr><td>9 to 16</td><td>
Question 2.: For a vehicle starting from rest and speeding up, the data for position and time are given in Table Plot the position-time graph corresponding to it.
<table>
<tr><th>TIME</th><th>POSITION</th></tr>
<tr><td>0 s</td><td>0 m</td></tr>
<tr><td>2 s</td><td>1 m</td></tr>
<tr><td>4 s</td><td>4 m</td></tr>
<tr><td>6 s</td><td>9 m</td></tr>
<tr><td>8 s</td><td>16 m</td></tr>
<tr><td>10 s</td><td>25 m</td></tr>
<tr><td>12 s</td><td>36 m</td></tr>
</table>
</td></tr>
</table>

17 to 24	Question 3. Two cars A and B start moving with respective constant acceleration from rest, in a straight line. Car A attains a velocity of 5 m s^{-1} in 5 s. Car B attains a velocity of 3 m s^{-1} in 10 s. Plot the velocity-time graphs for both the cars in the same graph. Using the graph, calculate the displacement in the two time intervals mentioned (Hint: Calculate the acceleration in both cases. Then calculate their velocities at five instants of time to plot the graph).
25 to 32	Question 4. The velocity-time graph from 0 s to 120 s for a cyclist is shown in Fig. Shade the areas (in different colours) representing the displacement of the cyclist (i) while cyclist is moving with constant velocity. (ii) when the velocity of cyclist is decreasing. 
33 onwards	Question 5. On entering a state highway, a car continues to move with a constant velocity of 6 m s^{-1} for 2 minutes and then accelerates with a constant acceleration 1 m s^{-2} for 6 seconds. Find the displacement of the car on the state highway in the 2 min 6 s time interval by drawing a velocity-time graph for its motion.

Subject – Social Science

Roll No.	Homework
1 to 8	**History** Create a timeline of early human evolution or a file on a Harappan city.
9 to 16	**Geography** Activity: Prepare a "Travel Diary" of a fictional journey across India, highlighting changes in landforms and climate.
17 to 24	**Political Science** Activity: Draft a latest election result of Tamil Nadu, Assam, West Bengal and Kerela
25 to 32	**Economics** Activity: Create a budget tracking sheet for a household item (e.g., groceries), tracking price changes
33 onwards	**History** Create a timeline of early human evolution or a file on a Harappan city.

Subject – Maths

Roll No.	Homework
1 to 8	**CASE STUDY 1: Number Systems (The Road Trip)** **Scenario:** Rohan is tracking his road trip progress on a GPS that uses different real numbers for fuel and distance. He sees both clean integers and complex repeating decimals. • **Q1.** Express $0.4\overline{21}$ as a fraction in the p/q form, where p and q are integers and $q \neq 0$. • **Q2.** Find three rational numbers between 1.41 and 1.73. • **Q3.** If $a = 5 + \sqrt{3}$, find the value of the expression: $a^2 - 10a + 22$. • **Q4.** Calculate the product of the expressions $(5 + 2\sqrt{3})$ and $(5 - 2\sqrt{3})$
9 to 16	**CASE STUDY 2: Number System Concepts (Lab Work)** **Scenario:** Priya is in a chemistry lab measuring mass for an experiment. She needs to use the laws of exponents and radicals to simplify her mixture calculations. • **Q1.** Find the value of $(64)^{1/2} + (125)^{1/3}$. • **Q2.** Simplify the radical expression: $\sqrt{18} + \sqrt{50} - \sqrt{98}$. • **Q3.** Solve for n in the exponential equation: $9^{n-2} = 3^{n+1}$. • **Q4.** If $a = 2$ and $b = 3$, find the value of $(a^b + b^a)^{-1}$.

17 to 24	**CASE STUDY 3: Polynomials (The Photo Frame)** **Scenario:** Anjali wants to frame a rectangular photo. The photo has a **length of $(x + 5)$ cm** and a **width of $(x + 2)$ cm**. • **Q1.** Write a polynomial $P(x)$ in standard form that represents the area of the photo. • **Q2.** If the value of x is 10 cm, what is the actual area of the photo in cm^2? • **Q3.** If she swaps to a square photo with a side of $(x + 3)$ cm, what is the new polynomial for that area? • **Q4.** Find the value of the square's area if $x = 5$ cm.
25 to 32	**CASE STUDY 4: Polynomials (Graphic Design)** **Scenario:** A designer is creating logos using algebraic curves. She uses two specific polynomials for the borders: $f(t) = 4t^2 - 12t + 5$ and $g(m) = m^3 - 27$. • **Q1.** Factorize both $g(m)$ and $f(t)$ using the appropriate identities or methods. • **Q2.** Evaluate the values of $g(3)$ and $f(-1)$. • **Q3.** Use the identity $(a - b)(a + b) = a^2 - b^2$ to solve 97×103. • **Q4.** If $x + y = 10$ and $xy = 21$, calculate the value of $x^3 + y^3$.
33 onwards	**CASE STUDY 5: Coordinate Geometry (City Mapping)** **Scenario:** A city planner is mapping out a new neighborhood on a coordinate grid. He marks the location of four important landmarks: **Library (2, 3)**, **Park (-4, 3)**, **School (-4, -2)**, and **Hospital (2, -2)**. • **Q1.** In which quadrants do the Library and the School lie? • **Q2.** If the planner connects the points L, P, S, and H in order, what geometric shape is formed? • **Q3.** What is the vertical distance (number of units) between the Library (L) and the Hospital (H)? • **Q4.** Find the coordinates of the point where the x-axis and y-axis intersect

Subject - Mathematics

Roll No.	Holiday Homework
1 to 8	**CASE STUDY 1: Number Systems (The Road Trip)** **Scenario:** Rohan is tracking his road trip progress on a GPS that uses different real numbers for fuel and distance. He sees both clean integers and complex repeating decimals. **Q1.** Express $0.4\overline{21}$ as a fraction in the p/q form, where p and q are integers and $q \neq 0$. **Q2.** Find three rational numbers between 1.41 and 1.73. **Q3.** If $a = 5 + \sqrt{3}$, find the value of the expression: $a^2 - 10a + 22$. **Q4.** Calculate the product of the expressions $(5 + 2\sqrt{3})$ and $(5 - 2\sqrt{3})$.
9 to 16	**CASE STUDY 2: Number System Concepts (Lab Work)** **Scenario:** Priya is in a chemistry lab measuring mass for an experiment. She needs to use the laws of exponents and radicals to simplify her mixture calculations. **Q1.** Find the value of $(64)^{1/2} + (125)^{1/3}$. **Q2.** Simplify the radical expression: $\sqrt{18} + \sqrt{50} - \sqrt{98}$. **Q3.** Solve for n in the exponential equation: $9^{n-2} = 3^{n+1}$. **Q4.** If $a = 2$ and $b = 3$, find the value of $(a^b + b^a)^{-1}$.
17 to 24	**CASE STUDY 3: Polynomials (The Photo Frame)** **Scenario:** Anjali wants to frame a rectangular photo. The photo has a **length of $(x + 5)$ cm** and a **width of $(x + 2)$ cm**. **Q1.** Write a polynomial $P(x)$ in standard form that represents the area of the photo. **Q2.** If the value of x is 10 cm, what is the actual area of the photo in cm^2? **Q3.** If she swaps to a square photo with a side of $(x + 3)$ cm, what is the new polynomial for that area? **Q4.** Find the value of the square's area if $x = 5$ cm.
25 to 32	**CASE STUDY 4: Polynomials (Graphic Design)** **Scenario:** A designer is creating logos using algebraic curves. She uses two specific polynomials for the borders: **$f(t) = 4t^2 - 12t + 5$** and **$g(m) = m^3 - 27$**. **Q1.** Factorize both $g(m)$ and $f(t)$ using the appropriate identities or methods. **Q2.** Evaluate the values of $g(3)$ and $f(-1)$. **Q3.** Use the identity $(a - b)(a + b) = a^2 - b^2$ to solve 97×103. **Q4.** If $x + y = 10$ and $xy = 21$, calculate the value of $x^3 + y^3$.
33 onwards	**CASE STUDY 5: Coordinate Geometry (City Mapping)** **Scenario:** A city planner is mapping out a new neighborhood on a coordinate grid. He marks the location of four important landmarks: **Library (2, 3)**, **Park (-4, 3)**, **School (-4, -2)**, and **Hospital (2, -2)**. **Q1.** In which quadrants do the Library and the School lie? **Q2.** If the planner connects the points L, P, S, and H in order, what geometric shape is formed? **Q3.** What is the vertical distance (number of units) between the Library (L) and the Hospital (H)? **Q4.** Find the coordinates of the point where the x-axis and y-axis intersect (the Origin).