



Homework for Summer Vacation (2026-27)

General Instructions:

- > Activities / Project work should be done as per the instructions. Given subject wise. (Use A3/A4 size sheets for activities)
- > Holiday Homework will be assessed as Subject Enrichment Activity (SEA). Make sure that you complete the assigned Holiday Homework in homework copy (Subject wise) and submit it on time.
- > Neatness and presentation are common parameters for most of the activities assigned. Please maintain the quality of work done.
- > Holiday Homework should be submitted latest by 3rd July 2026. It must be labelled properly with the name, class and roll number of the child.
- > Originality of the work will be appreciated.
- > Encourage your ward to converse in English as a regular practice during holidays to enhance communication.

NOTICE FOR SUMMER VACATION (For Class IX to XII)

- 1- Summer Holidays- 25/05/2026 to 18/06/2026.
- 2- School Re-opens on- 19/06/2026 (Friday)
- 3- Timing on 19/06/2026- 8:00 am to 12: 45 pm
- 4- Completing Holiday Homework is mandatory for all students.
- 5- 1st PTM- On 24/05/2026 (Sunday) Timing-9:00 am to 12:00 noon.

Class-XII-Science

Subject	Contents		
Hindi	हिन्दी (फाइल में पूर्ण कीजिए।) विभिन्न माध्यमों के लिए लेखन -परियोजना कार्य-		
English	<p>Read the following Chapters and write in your Project File.</p> <table border="1"> <tr> <td> <p>Chapters</p> <ol style="list-style-type: none"> 1. The Last Lesson 2. Lost Spring 3. My Mother at Sixty Six 4. Keeping Quiet 5. The Third Level <p>Writing</p> <ol style="list-style-type: none"> 1. Notice Writing- 2 </td> <td> <p>Topics</p> <ol style="list-style-type: none"> 1. About the Author 2. Chapter Sketch 3. About the Character(s) 4. Summary of the Chapter 5. Message of the Chapter 6. Literary Devices used </td> </tr> </table>	<p>Chapters</p> <ol style="list-style-type: none"> 1. The Last Lesson 2. Lost Spring 3. My Mother at Sixty Six 4. Keeping Quiet 5. The Third Level <p>Writing</p> <ol style="list-style-type: none"> 1. Notice Writing- 2 	<p>Topics</p> <ol style="list-style-type: none"> 1. About the Author 2. Chapter Sketch 3. About the Character(s) 4. Summary of the Chapter 5. Message of the Chapter 6. Literary Devices used
<p>Chapters</p> <ol style="list-style-type: none"> 1. The Last Lesson 2. Lost Spring 3. My Mother at Sixty Six 4. Keeping Quiet 5. The Third Level <p>Writing</p> <ol style="list-style-type: none"> 1. Notice Writing- 2 	<p>Topics</p> <ol style="list-style-type: none"> 1. About the Author 2. Chapter Sketch 3. About the Character(s) 4. Summary of the Chapter 5. Message of the Chapter 6. Literary Devices used 		
IP	<ol style="list-style-type: none"> 1: Create a Pandas Series from a Python list of 12 monthly sales (integers). Show index labels as month names, perform slice operations for months Mar–Aug. Provide output. 2. Differentiate between Series and DataFrame. q.3. import pandas as pd data = {'Apples': 150, 'Bananas': 200, 'Cherries': 50, 'Dates': 300, 'Elderberries': 100} sales = pd.Series(data) print("Original Sales Series:\n", sales) <p>Exercises</p> <ol style="list-style-type: none"> 1. Display only the sales for 'Bananas' and 'Dates'. 2. Add a new product 'Figs' with a sale of 250. 3. Update 'Cherries' sales to 75. 4. Calculate a new Series increased_sales where all current sales are increased by 10%. 5. Filter and display products with sales greater than 150. 6. Sort the series by sales in descending order. 7. Find the highest and lowest selling product name and value. [1, 2, 3, 4, 5] 		
PAINTING	<ol style="list-style-type: none"> 1-Make a folk art 1/2 size sheet and mount it black or brown ivory sheet. 2- Make your practical file and decorat it beautifully...for your project work. 		

<p style="text-align: center;">BIOLOGY</p>	<p style="text-align: center;">PREPARE A 3-D MODEL OF:-</p> <p>(A) Male Reproductive part (B) Female Reproductive part. (C) Development of embryo in human. (D) Life Cycle of Plasmodium. (E) Development of female Gametophyte. (F) Model of Benign and Malignant tumor (G) Double helix Model of DNA(B-DNA). (H) Life Cycle of Retrovirus (I) Bio gas plant Or Gobar gas Plant. (J) Show Epigynous, Hypogynous, Perigynous condition by Model. 2. Solve all set of 2025, 2024, 2023 2022 questions of sexual Reproduction and human reproduction along with NCERT Exercise question.</p>
<p style="text-align: center;">PHYSICS</p>	<p>(1) Write any 6 activities form physics lab manual book (3 from each section). (2) Derive expression for following- i) Vector form of coulomb's law, ii) Electric field due to charged metallic hollow sphere, iii) Potential due to a point charge, iv) Potential energy of a system of two-point charges v) Effect of dielectric slab on capacitance of parallel plate capacitor.</p>
<p style="text-align: center;">MATHEMATICS</p>	<p>1. Define the relations and functions with the examples. 2. Write the definition of reflexive relation, symmetric relation and transitive relation with examples. 3. Write and learn all formulas of trigonometric functions. 4 define the row matrix, column matrix, square matrix, null matrix, scalar matrix. 5. Define the symmetric matrix and skew symmetric matrix. 6. Define the minors and cofactors with examples.</p>
<p style="text-align: center;">PHYSICAL EDUCATION</p>	<p>Complete your note books and revise chapter 1&2. <p style="text-align: center;">Make first Aid kit with following:</p> <p>Adhesive bandages (various sizes) for minor cuts.</p> <ul style="list-style-type: none"> • Sterile gauze pads and medical tape for larger wounds. • Antiseptic wipes or solution (e.g., Dettol/Savlon) to clean wounds. • Tweezers and scissors. • Instant cold pack for sprains and bruises. • Disposable gloves for hygiene. <p>Basic OTC Medicine Section:</p> <ul style="list-style-type: none"> • <i>Note: All medicines must remain in their original blister packs with clear expiration dates.</i> • Pain & Fever Reliever: Paracetamol or Ibuprofen. • Antacid: For stomach aches or indigestion. • Antihistamine: For mild allergic reactions or bug bites. • ORAL Rehydration Salts (ORS): For dehydration and heat exhaustion. • Antiseptic Ointment: To prevent infection in cuts. </p>
<p style="text-align: center;">CHEMISTRY</p>	<p>Instructions: i) Complete all work neatly in your chemistry notebook. ii) Diagrams must be labeled and drawn with pencils only. iii) Use internet and textbooks for research-based activities but write in your own words.</p> <p>1. Concept Application: a) Define Raoult's Law. b) State and explain Henry's Law with examples. 2. Numerical Practice: a) Calculate the molarity of a solution containing 10 g of NaOH in 500 mL of solution. b) Determine the boiling point elevation when 0.5 mol of a non-volatile solute is dissolved in 1 kg of water ($K_b = 0.52 \text{ K}\cdot\text{kg}/\text{mol}$).</p> <p>Project Work: "Green Chemistry in Daily Life" Prepare a 2–3 page report or poster on: i) Principles of green chemistry ii) Examples of eco-friendly reactions iii) Role in sustainable development</p> <p style="text-align: center;">Activity-Based Holiday Homework</p> <p>1. Electrochemical Cell Model (Activity) Objective: Construct a simple electrochemical cell using lemon, copper, and zinc. Material: Lemon, copper coin, zinc nail, wires, LED. Task: Build the cell and make the LED glow. Draw a neat labeled diagram. Explain the working of the cell and write redox reactions.</p> <p>2. Natural pH Indicator Test Objective: Identify acidic or basic nature of household items using red cabbage extract. Material: Red cabbage, vinegar, lemon juice, baking soda, detergent. Task: Test and record color changes.</p> <ul style="list-style-type: none"> • Create an observation table. * Conclude the pH range of each item.