

**ARMY PUBLIC SCHOOL BATHINDA MIL STN**  
**CLASS - IX (Autumn Break Holiday Home-Work 2024-25)**

<b>MATHS</b>	Do Activity of Chapter-8 Quadrilaterals(Quadrilateral formed by joining mid points of sides of a quadrilateral) on Practical Notebook from Lab Manual.
<b>ENGLISH</b>	<p>Make a <b>Pocket Dictionary</b> using Vocabulary Words from Chapters 7 to 9 (chapters not done in class) mentioned in your <b>English textbook: Beehive</b>.</p> <p><b>Steps to be followed:</b></p> <ol style="list-style-type: none"> <li>1. Find 25 difficult/ new words.</li> <li>2. Write their meanings.</li> <li>3. Use them in sentences.</li> <li>4. Draw some related images.</li> <li>5. Use a diary or notebook for this work.</li> </ol> <p>*Revise all the Grammar and Writing Skills covered in class till date.*</p>
<b>HINDI</b>	<ol style="list-style-type: none"> <li>1. त्योहारों के विषय में बातचीत करते हुए दो मित्रों के मध्य संवाद लिखें ।</li> <li>2. विजयदशमी विषय पर 100-120 शब्दों में एक अनुच्छेद लिखें ।</li> <li>3. 'सर चंद्रशेखर वेंकट रामन' पाठ को पढ़कर उनके जीवन के विषय में जानकारी एकत्रित करके संक्षेप में लिखें ।</li> </ol>
<b>S.ST.</b>	Prepare a report on the result of Haryana Assembly election on fair note book. (Civics)
<b>SCIENCE</b>	<p>I. Solve the question paper of Half yearly Examination in fair notebook (Solve Set B if the student got Set A in examination or vice versa).</p> <p>II. Write the following activities in practical file:</p> <ol style="list-style-type: none"> <li>1. Preparation of: <ol style="list-style-type: none"> <li>a) a true solution of common salt, sugar and alum</li> <li>b) a suspension of soil, chalk powder and fine sand in water</li> <li>c) a colloidal solution of starch in water and egg albumin/milk in water and distinguish between these on the basis of <ol style="list-style-type: none"> <li>(i) Transparency</li> <li>(ii) filtration criterion</li> <li>(iii) stability</li> </ol> </li> </ol> </li> <li>2. Preparation of: <ol style="list-style-type: none"> <li>a) A mixture</li> <li>b) A compound using iron filings and sulphur powder and distinguishing between these on the basis of: <ol style="list-style-type: none"> <li>(i) appearance, i.e., homogeneity and heterogeneity</li> <li>(ii) behaviour towards a magnet</li> <li>(iii) behaviour towards carbon disulphide as a solvent</li> <li>(iv) effect of heat</li> </ol> </li> </ol> </li> <li>3. Determination of the density of solid (denser than water) by using a spring balance and a measuring cylinder.</li> <li>4. Establishing the relation between the loss in weight of a solid when fully immersed in <ol style="list-style-type: none"> <li>a) Tap water</li> <li>b) Strongly salty water with the weight of water displaced by it by taking at least two different solids.</li> </ol> </li> </ol>
<b>Marketing and Sales</b>	Prepare a PPT on Different selling Activities with Selling tasks. Complete Project File.

<p style="text-align: center;"><b>Artificial Intelligence</b></p>	<p>Objective: To introduce students to the concept of entrepreneurship, help them understand the qualities of successful entrepreneurs, and encourage innovative thinking and problem-solving skills.</p> <p><b>Instructions:</b></p> <ul style="list-style-type: none"> <li>• <b>Complete all tasks during the holiday break.</b></li> <li>• <b>Use creativity and originality in your work.</b></li> <li>• <b>All research and content should be neatly written or typed and compiled in a file or A4 sheets.</b></li> <li>• <b>Use visual aids (charts, posters, etc.) where needed.</b></li> </ul> <p>Part 1: Understanding Entrepreneurship</p> <ol style="list-style-type: none"> <li>1. What is entrepreneurship?</li> <li>2. Qualities of a Successful Entrepreneur</li> </ol> <p>Part 2: Idea Generation and Innovation</p> <ol style="list-style-type: none"> <li>1. Real-Life Problem: <ul style="list-style-type: none"> <li>• Identify a common problem faced in your community or school. Think like an entrepreneur and propose</li> </ul> </li> <li>2. Business Idea Come up with your own unique business idea. Write about it in 200-250 words. <ul style="list-style-type: none"> <li>• What is your business idea?</li> <li>• Why do you think it's unique?</li> <li>• Who are your target customers?</li> <li>• How would your business benefit them?</li> </ul> </li> </ol>
<p style="text-align: center;"><b>Information Technology</b></p>	<p>Complete a data analysis project using LibreOffice Calc. The project involves creating a spread sheet with provided data, performing calculations, and generating visualizations. Detailed instructions on data entry, applying formulas, formatting, and creating charts are included in the project guidelines. Detailed instructions and requirements are provided in the project guidelines.</p>
<p style="text-align: center;"><b>SKILL SUBJECT PAT</b></p>	<p style="text-align: center;"><b>COMPLETE THE NOTE BOOK AND PRACTICAL FILE</b></p>