

**BIRLA SCHOOL, PILANI (RW)**  
**SUMMER VACATION HOMEWORK 2024-25**  
**Class-IX**

<b>English</b>	<ol style="list-style-type: none"> <li>1. Learn two long narrative poems of three minutes duration.</li> <li>2. Prepare your portfolio online in the given format and paste (preferably colourful) pages in the file. (Link for portfolio is given below).</li> </ol>																					
<b>Hindi</b>	<ol style="list-style-type: none"> <li>1. ग्लोबल वार्मिंग से किस प्रकार जलवायु परिवर्तन होता है; इसके क्या-क्या प्रभाव हैं; मानव-जीवन को ध्यान में रखकर तथ्यों को प्रकाशित करते हुए चित्र सहित स्पष्ट कीजिए।</li> <li>2. उत्तरपुस्तिका में करवाए गए पाठों का स्मरण करें।</li> </ol>																					
<b>Sanskrit</b>	<ol style="list-style-type: none"> <li>1. कोई 5 चित्र चिपकाकर 5-5 वाक्य संस्कृत में लिखो।</li> <li>2. भगवत गीता के कोई 5 श्लोक याद करो।</li> </ol>																					
<b>Maths</b>	<ol style="list-style-type: none"> <li>1. Draw a spiral representation of <math>\sqrt{2}, \sqrt{3}, \sqrt{5}, \sqrt{6}, \sqrt{7}</math> on number line using A4 size sheet.</li> <li>2. Solve all the solved examples of Chapter 1 Number system from NCERT Text book.</li> <li>3. Solve all the solved examples of Chapter 3 Polynomials from NCERT Textbook.</li> <li>4. Solve 10 questions each from Chapter 1 &amp; 3 other than NCERT Textbook.</li> </ol> <p>Note: Use a separate notebook to Complete holiday homework</p>																					
<b>Physics</b>	<ol style="list-style-type: none"> <li>1. Make a portable project on the Application of Solar Energy and Water Conversation.</li> </ol>																					
<b>Chemistry</b>	<ol style="list-style-type: none"> <li>1. Prepare a chart showing the difference among the properties of solid, liquid and gas.</li> <li>2. Write and learn the first 20 elements with their symbols and atomic number.</li> <li>3. Write and learn the unit and symbols of the given quantities given on page 11 Chapter 1 (NCERT Science).</li> </ol>																					
<b>Biology</b>	<ol style="list-style-type: none"> <li>1. Prepare a model to compare plant cell and animal cell using common household items like grains, pulses, etc.            Note: The size of the above assignment should not be more than that of the size of an A4 size paper.</li> <li>2. Draw your cell city on a blank piece of white paper. The cell should take up the entire front of the page and each part of the city should be labelled with the city part and the cell part. Your drawing should be full of colour. Make sure that you give your city an interesting name. Complete the check list as well given below. One is already done for you as an example.</li> </ol> <table border="1" style="margin-left: auto; margin-right: auto;"> <thead> <tr> <th>Cell Part</th> <th>Labeled</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>Cell Membrane</td> <td></td> <td></td> </tr> <tr> <td>Nucleus</td> <td>Town Hall</td> <td>As nucleus controls the activities of the cell, the town hall is the centre that regulates the activities of a city</td> </tr> <tr> <td>Mitochondria</td> <td></td> <td></td> </tr> <tr> <td>Golgi body</td> <td></td> <td></td> </tr> <tr> <td>Lysosomes</td> <td></td> <td></td> </tr> <tr> <td>Chloroplast</td> <td></td> <td></td> </tr> </tbody> </table>	Cell Part	Labeled	Description	Cell Membrane			Nucleus	Town Hall	As nucleus controls the activities of the cell, the town hall is the centre that regulates the activities of a city	Mitochondria			Golgi body			Lysosomes			Chloroplast		
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<b>Social Science</b>	<ol style="list-style-type: none"> <li>1. Prepare a file/project report on Socio Economic and Occupational structure in and around your locality and explain with bar graph and pie diagram/chart.           <ol style="list-style-type: none"> <li>a. Occupation structure</li> <li>b. Literacy rate.</li> <li>c. Age and Sex ratio.</li> </ol> </li> <li>2. Solve Pre Mid Term question paper in your Geography notebook.</li> </ol>																					