



# MEDI-CAPS INTERNATIONAL SCHOOL

## SUMMER ASSIGNMENTS (2026-27)

### CLASS -X

| S. No. | Subject | ASSIGNMENTS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
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| 1.     | English | <p><b>Q1. Write a Letter to the Editor (120–150 words)</b><br/> <b>A-</b> You are Riya Sharma, a resident of Green Park, Lucknow. Write a letter to the Editor of The Times of India expressing your concern about the increasing problem of air pollution due to construction work and heavy traffic in your area. Suggest suitable measures.<br/> <b>B-</b> You are Neha Singh, a student of Class X . Write a letter to the Editor of The Indian Express about the growing menace of cybercrime and online fraud. Suggest steps to create awareness among students and parents.</p> <p><b>Q2. Fill in the blanks with correct verbs</b></p> <ol style="list-style-type: none"> <li>Each of the students _____ submitted the homework. (has/have)</li> <li>Neither the teacher nor the students _____ present. (was/were)</li> <li>The news _____ very shocking. (is/are)</li> <li>A bunch of keys _____ lying on the table. (is/are)</li> <li>Mathematics _____ my favourite subject. (is/are)</li> <li>The quality of the mangoes _____ excellent. (is/are)</li> <li>The police _____ investigating the case. (is/are)</li> <li>Either you or he _____ responsible for the mistake. (is/are)</li> <li>One of my friends _____ going to Delhi tomorrow. (is/are)</li> <li>The committee _____ decided to cancel the event. (has/have)</li> </ol> <p><b>Q3 . Identify and correct the errors</b></p> <ol style="list-style-type: none"> <li>The list of items are on the table.</li> <li>Neither of the boys have completed the project.</li> <li>The teacher along with the students are going for the trip.</li> <li>Bread and butter are my favourite breakfast.</li> <li>Every student and teacher were invited.</li> </ol> <p><b>Q4. Convert Direct to Indirect Speech</b></p> <ol style="list-style-type: none"> <li>He said, “I am going to school.”</li> <li>The teacher said, “Work hard for success.”</li> <li>She said, “Do you like reading books?”</li> <li>Rahul said, “I have finished my homework.”</li> <li>Mother said to me, “Please bring vegetables.”</li> </ol> <p><b>Q5. Covert Indirect to direct Speech.</b></p> <ol style="list-style-type: none"> <li>The captain applauded me, saying that I had played well.</li> <li>Raj exclaimed sadly that his pet died.</li> <li>Ruchi said that she might go there.</li> <li>Bucky asked Steve if he heard him.</li> <li>The boy asked to let him come in.</li> </ol> |
| 2.     | Hindi   | <p>ग्रीष्मकालीन गृह कार्य -<br/> प्र 1. निम्नलिखित विषयों में से किसी एक विषय पर संकेत बिन्दु के अनुसार सचित्र अनुच्छेद लिखिए।</p> <ol style="list-style-type: none"> <li>मोबाइल फोन का उपयोग<br/> संकेत बिंदु:<br/> मोबाइल का महत्व<br/> शिक्षा में उपयोग<br/> दुरुपयोग<br/> बच्चों पर प्रभाव<br/> संतुलित उपयोग</li> <li>जल संरक्षण<br/> संकेत बिंदु:<br/> जल का महत्व जल, संकट के कारण ,जल की बर्बादी ,संरक्षण के उपाय जागरूकता</li> </ol>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |

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|    |                                                                                                                                                                                                                                                                                                                                                                                                                                                    | <p>प्र.2 निम्नलिखित मुहावरे के अर्थ लिखकर वाक्य बनाइए-</p> <p>(1) सिर पर सवार होना<br/> (2) नाक में दम करना<br/> (3) जी छोटा करना<br/> (4) आँखों का तारा<br/> (5) दाँत खुट्टे करना<br/> (6) हाथ-पाँव फूलना<br/> (7) मन लगाना<br/> (8) सिर पर सवार होना<br/> (9) नाक में दम करना<br/> (10) जी छोटा करना<br/> (11) आँखों का तारा<br/> (12) हाथ-पाँव फूलना<br/> (13) मन लगाना<br/> (14) सिर पकड़कर बैठ जाना<br/> (15) हिम्मत हारना</p> <p>प्र.3 कक्षा दसवीं पूरक पुस्तिका पाठ 1. हरिहर काका को पढ़कर उसका आकर्षित एवं सुंदर (माइंड मैप) बनाए।</p>                                                                                                                                                                                                                                                                                                                                                                                                                           |
| 3. | Mathematics                                                                                                                                                                                                                                                                                                                                                                                                                                        | <p>To draw the graph of a quadratic polynomial<br/> To verify the conditions of consistency/ inconsistency for a pair of linear equations in two variables by graphical method.<br/> To obtain the solution of a quadratic equation (<math>x^2 + 4x = 60</math>) by completing the square geometrically.<br/> To find the sum of first n natural numbers.<br/> To establish a formula for the sum of first n terms of an Arithmetic Progression.<br/> To verify the distance formula by graphical method. I<br/> To verify section formula by graphical method.<br/> To establish the criteria for similarity of two triangles.<br/> To verify Basic Proportionality Theorem (Thales theorem).<br/> To verify Pythagoras theorem by Bhaskara method.<br/> To verify experimentally that the tangent at any point to a circle is perpendicular to the radius through that point.<br/> Worksheet 1<br/> Worksheet 2<br/> Worksheet 3<br/> Worksheet 4<br/> Worksheet 5</p> |
|    | <p><b>SCIENCE:</b></p> <p><b>PHYSICS:</b></p> <p>Practical file Completion (5 experiments)<br/> Science Portfolio (PHYSICS)</p> <p><b>CHEMISTRY:</b></p> <p>1. Practical file completion (Total 7 Experiments)<br/> 2. Worksheet on chapter 1 Chemical Reactions and Equations<br/> 3. Science Portfolio</p> <p><b>BIOLOGY</b></p> <p>Practical File completion - 4 experiments<br/> Science Portfolio<br/> Work sheet for Ch 5 Life Processes</p> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| 5  | Social                                                                                                                                                                                                                                                                                                                                                                                                                                             | <p>Every student to compulsorily undertake project on the following topics:<br/> Consumer Awareness<br/> OR<br/> Social Issues<br/> OR</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |

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|          |           | <b>Sustainable Development</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>6</b> | <b>IT</b> | <p><b>Topic: Explore AI Tools Used in Education</b></p> <p><b>Suggested AI Tools:</b></p> <ol style="list-style-type: none"> <li>1. ChatGPT</li> <li>2. Google Gemini</li> <li>3. Khan Academy (Khanmigo)</li> <li>4. Duolingo</li> <li>5. Canva AI</li> <li>6. Grammarly</li> </ol> <p><b>Assignment Questions:</b></p> <ol style="list-style-type: none"> <li>1. What is Artificial Intelligence (AI)? Explain in 50 words.</li> <li>2. Choose any three AI tools from the list and write: <ul style="list-style-type: none"> <li>○ Purpose of the tool</li> <li>○ How it helps in learning</li> <li>○ One feature you liked most</li> </ul> </li> <li>3. Compare any two AI tools on the basis of: <ul style="list-style-type: none"> <li>○ Accuracy</li> <li>○ Ease of use</li> <li>○ Learning support</li> <li>○ Creativity features</li> </ul> </li> <li>4. Perform one activity using an AI tool (example: generate notes, solve a query, make presentation, grammar correction) and write your experience in 100–150 words.</li> <li>5. Write five advantages of using AI in education.</li> <li>6. Write three limitations or precautions while using AI tools.</li> <li>7. Project Work: Prepare a chart/PPT on “Role of AI in Future Education.”</li> </ol> |

**NOTE:**

Students are hereby informed that for all subjects where the summer assignment is project-based, they are required to prepare a video presentation of their work. The video should clearly demonstrate the concept, process, and outcomes of the project.

Students must share their videos with their respective subject teachers within the stipulated time. Evaluation and grading will also be based on the quality, creativity, and presentation of these video submissions.

Ensure that the videos are clear, well-structured, and reflect your individual understanding and effort.

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