



# TAGORE SENIOR SECONDARY SCHOOL BARWA

## SUMMER VACATION ASSIGNMENT CLASS X

Subject	Homework Description	Submission Format
Physics	<ol style="list-style-type: none"> <li><b>Chapter 1 (Units &amp; Measurements) :</b> <ul style="list-style-type: none"> <li>Do the given worksheet questions</li> <li>Prepare a concept map on 'Units &amp; Measurements'.</li> <li>Make chart on the working and applications of vernier calliper and screw gauge.</li> </ul> </li> <li><b>Chapter 2 (Motion in a straight line) and Chapter 3 (Motion in plane)</b> <ul style="list-style-type: none"> <li>Do 30 ques of each chapter from HC Verma (Part 1) (<b>Questions will be provided in pdf format from this book</b>)</li> <li>All the NCERT questions including examples and in- text questions are to be solved in Notebooks</li> <li>Make a model or PPT on any one topic: Scalars &amp; Vectors / Laws of Motion.</li> </ul> </li> <li>Write 5 experiments in your physics practical file from LAB MANUAL (available on cbse website). Write each practical some busy concept of chem               <ul style="list-style-type: none"> <li>Materials Required</li> <li>Procedure</li> <li>Observations</li> <li>Conclusion</li> <li>Error</li> </ul> </li> </ol>	Physics Notebook + Physics practical file/Printed model/PPT/Chart
Chemistry	<ol style="list-style-type: none"> <li>Ch-1 : (some basic concept of chemistey ) Do the given worksheet questions (Will be provided in your respective group)</li> <li>Ch- 2 : (structure of atom) Do NCERT exercise questions in fair note book               <ul style="list-style-type: none"> <li><i>Learn S block and P block elements</i></li> <li><i>Prepare chart on periodic table</i></li> </ul> </li> </ol>	

Mathematics	<p><b>1. NCERT Chapters 1 to 4</b></p> <p>Chapters Covered:</p> <ul style="list-style-type: none"> <li>• Chapter 1 – Sets</li> <li>• Chapter 3 – trigonometric functions</li> <li>• Chapter 4 – Complex number</li> </ul> <p><b>Instructions:</b></p> <ul style="list-style-type: none"> <li>• Use separate notebook(s) for solving.</li> <li>• Work must include: <ul style="list-style-type: none"> <li>o Handwritten notes with definitions and key concepts.</li> <li>o Solved examples from the NCERT textbook.</li> <li>o Complete exercise solutions for each chapter.</li> <li>o Assignment questions, shared by the teacher.</li> </ul> </li> <li>• Begin each chapter with a colorful mind map showing a summary of the concepts.</li> <li>• Ensure clean handwriting, organized presentation, and proper headings.</li> </ul> <p><b>Art-Integration Tips:</b></p> <ul style="list-style-type: none"> <li>• Use color-coded mind maps with creative diagrams and borders.</li> <li>• Decorate pages with math-inspired patterns or Indian folk art (e.g., Madhubani, Warli, Gond).</li> <li>• Add real-life visuals or symbols to represent each mathematical concept.</li> </ul> <p><b>2. Mathematics Lab Practicals</b></p> <p><b>Instructions:</b></p> <ul style="list-style-type: none"> <li>• Select any 5 practicals from the CBSE Maths Lab Manual (available on the CBSE academic website).</li> <li>• Write each practical in the proper format: <ul style="list-style-type: none"> <li>o Aim</li> <li>o Materials Required</li> <li>o Procedure</li> <li>o Observations</li> <li>o Conclusion</li> </ul> </li> </ul> <p><b>Art-Integration Tips:</b></p> <ul style="list-style-type: none"> <li>• Make a creative cover page with math-art designs.</li> <li>• Illustrate graphs and instruments with colored sketches or diagrams.</li> <li>• Incorporate geometric or tribal art patterns in borders and headings</li> </ul> <p><b>3. Mathematics Project</b></p> <p><b>Instructions:</b></p>	

	<ul style="list-style-type: none"> <li>• Choose any project based on your syllabus.</li> <li>• Follow a structured format:               <ul style="list-style-type: none"> <li>o Introduction</li> <li>o Objective</li> <li>o Data Collection</li> <li>o Mathematical Explanation</li> <li>o Conclusion</li> </ul> </li> </ul> <p><b>Art-Integration Tips:</b></p> <ul style="list-style-type: none"> <li>• Present the project using charts, graphs, colorful visuals, and regional art forms.</li> <li>• Integrate themes such as Madhubani borders, Gond animal patterns, or Warli stick figures.</li> <li>• You may even use collage, craft, or foldables to make it interactive.</li> </ul> <p><b>4. Formula Chart</b></p> <p><b>Instructions:</b></p> <ul style="list-style-type: none"> <li>• Prepare a chart paper displaying formulas from one chosen topic</li> <li>• The chart should be colorful, neat, and informative.</li> </ul> <p><b>Art-Integration Tips:</b></p> <ul style="list-style-type: none"> <li>• Use a creative theme such as:               <ul style="list-style-type: none"> <li>o “Math Garden” – Each flower or leaf contains a formula</li> <li>o “Galaxy of Formulas” – Planets/stars show each concept</li> </ul> </li> <li>• Incorporate traditional art styles in decoration and design.</li> </ul>	
Biology	<p><b>Reading/learning</b></p> <p>1. Learn plant kingdom book exercise and notes</p> <p>Test for the presence of sugar, starch, proteins and fats in suitable plant and animal materials.</p> <p><b>Writing -</b></p> <p>2. Separation of plant pigments through paper chromatography.</p> <p>3. Study of the rate of respiration in flower buds/leaf tissue and germinating seeds.</p> <p><b>Project /Activity -</b></p> <p>4. Test for presence of urea in urine.</p> <p>5. Test for presence of sugar in urine.</p> <p>6. Test for presence of albumin in urine.</p> <p>7. Test for presence of bile salts in urine.</p> <p>8. Make power point presentations on Bryophyte and Pteridophytes</p>	Practical file+ PPT and bio notebook

English	<ol style="list-style-type: none"> <li>1. Lesson 1 – The Portrait of a Lady <ul style="list-style-type: none"> <li>• Write a summary (150–200 words)</li> <li>• Character sketch of the grandmother</li> <li>• 5 value-based questions and answers</li> </ul> </li> <li>2. Lesson 2 – We’re Not Afraid to Die.. if We Can All Be Together <ul style="list-style-type: none"> <li>• Write a timeline of events from the story</li> <li>• Describe the qualities of the narrator</li> <li>• Vocabulary: List 10 new words with meanings and sentences</li> </ul> </li> <li>1. Poem 1 – A Photograph <ul style="list-style-type: none"> <li>• Explanation of each stanza in your own words</li> <li>• Write what emotions the poem brings out</li> <li>• Pick 5 poetic devices used and explain with examples</li> </ul> </li> <li>2. Poem 2 – The Laburnum Top <ul style="list-style-type: none"> <li>• Describe the transformation of the tree</li> <li>• Write a short poem of your own on nature (4–6 lines)</li> <li>• Identify and explain 3 literary devices</li> </ul> </li> </ol> <p><b>Assignments (Both the assignments given below are compulsory)</b></p> <p>Assignment 1: Write a personal letter to your cousin describing how you plan to spend your summer vacation. Use informal tone and be descriptive.</p> <p>Assignment 2: Write a speech on the topic: "The Role of Family and Nature in Refreshing the Mind during Holidays" (150–200 words). Practice reading it aloud.</p> <ul style="list-style-type: none"> <li>• <b>Creative Activities</b></li> </ul> <p>(Do any 3 of the following – add pictures/drawings where needed)</p> <ol style="list-style-type: none"> <li>1. <u>Holiday Memory Collage</u> : Make a collage with photos or cut-outs representing how you plan to enjoy or have already enjoyed your summer vacation. Write a 50-word description below.</li> <li>2. <u>Travel Brochure</u> : Design a brochure for a summer vacation destination (real or imaginary). Include: highlights, activities, food, weather, and why one should visit.</li> <li>3. <u>Short Vacation Video Script</u> : Write a script for a 2–3 minute vlog describing your day at a summer destination. Add dialogues, background sounds, and transitions (can be written, no need to record).</li> </ol> <ul style="list-style-type: none"> <li>• <b>Essay Writing</b></li> </ul> <p>Write the following essays in your grammar notebook (200–250 words):</p> <ol style="list-style-type: none"> <li>1. The Importance of Taking a Break: What Summer Vacations Teach Us</li> <li>2. My Ideal Summer Vacation Plan</li> <li>3. How Summer Holidays Help in Self-Discovery</li> </ol>	English HW Notebook
---------	--	------------------------

Yoga	<p><b>1. Practical File on Yogasana and Pranayama</b>          Prepare a practical file including the following:</p> <ul style="list-style-type: none"> <li>- A minimum of 5 Yogasanas             <ul style="list-style-type: none"> <li>- Mention: Name, Procedure, Benefits, and Precautions</li> </ul> </li> <li>- A minimum of 3 Pranayamas             <ul style="list-style-type: none"> <li>- Mention: Name, Steps, Benefits, and Precautions</li> </ul> </li> <li>- Paste pictures of yourself performing each of the listed Yogasanas and Pranayamas.</li> <li>- Use colored pens, borders, and headings to make your file neat and visually appealing.</li> </ul> <p><b>2. Chart on "Surya Namaskar"</b>          Create a colorful chart on the topic "Surya Namaskar":</p> <ul style="list-style-type: none"> <li>- Include all 12 poses in correct sequence with their names.</li> <li>- Mention the benefits of practicing Surya Namaskar.</li> <li>- Paste or draw illustrations/pictures showing each of the 12 poses.</li> </ul> <p>Note: Students are encouraged to practice the Yogasanas and Pranayama daily to improve health, flexibility, and concentration.</p>	Yoga Journal with pictures
Music	<p><b>1. Research on Natyashastra</b>          Prepare a detailed note on Bharata Muni's Natyashastra.          Include:</p> <ul style="list-style-type: none"> <li>- What is Natyashastra?</li> <li>- Its importance in Indian performing arts.</li> <li>- The concept of Rasa and Bhava.</li> <li>- Its contribution to Indian classical music.</li> <li>- Add pictures/illustrations if possible.</li> </ul> <p><b>2. Brief Study on Margi and Desi Sangeet</b>          Explain the terms Margi Sangeet and Desi Sangeet.          Highlight:</p> <ul style="list-style-type: none"> <li>- Their differences and features.</li> <li>- Historical development and relevance.</li> <li>- Examples of each form.</li> </ul> <p><b>3. Life Sketch and Contributions</b>          Write short biographies (in 1–2 pages each) including:</p> <p><b>Tansen</b></p> <ul style="list-style-type: none"> <li>- Early life, training, patronage under Akbar.</li> <li>- Contributions to Hindustani classical music.</li> <li>- Famous ragas composed or popularized by him.</li> </ul> <p><b>Vishnu Narayan Bhatkhande</b></p> <ul style="list-style-type: none"> <li>- Role in systematizing Indian classical music.</li> <li>- His notation system and books.</li> </ul>	Handwritten note

	<p>- Establishment of music institutions.</p> <p><b>4. Creative Chart Making</b></p> <p>Choose any one topic from below and prepare a creative, colorful chart:</p> <ul style="list-style-type: none"> <li>- Types of musical instruments (String, Wind, Percussion).</li> <li>- Ragas and their Time Theory.</li> <li>- A famous musical instrument (like Sitar, Tabla, Veena).</li> <li>- Folk vs Classical Music.</li> </ul> <p>Use colored paper, sketches, printed pictures, or calligraphy for artistic presentation.</p>	
--	---	--

Note:

- All homework is to be submitted on the first day after summer vacation.
- Creativity and neatness will carry extra marks.
- All projects must be handwritten unless stated otherwise.