

BIRLA SCHOOL, PILANI (Residential Wing)
SUMMER VACATION HOMEWORK 2024-25
CLASS-XII A & B (SCIENCE)

English	<ol style="list-style-type: none"> 1. Prepare a Group Research Project Work and submit one file per group. 2. The project report should be developed in the following sequence: <ol style="list-style-type: none"> a) Cover page: School Name, logo, Title statement, Name of the Students of the group and Year /session b) Index (list of contents) c) Acknowledgement d) Certificate e) Introduction statement (The purpose of the Project) f) Detailed Project g) Learning outcomes/experiences <p>(Project work should be well illustrated with relevant/related/supportive photos/pictures thereof) Total Pages/slides: 20-25</p>
Physics	Complete the unsolved numerical in classwork copy from NCERT 81 to 90 page. (Electrostatic exercise)
Chemistry	<ol style="list-style-type: none"> 1. Solve worksheet of Solutions based on previous years question's in your homework notebook. 2. Solve worksheet of Electrochemistry based on previous years question's in your homework notebook. 3. Revise notes of Solution and Electrochemistry.
Maths	<ol style="list-style-type: none"> 1. Do all the solved examples of chapters 1, 2,3 and 4 of NCERT text book. 2. Solve 20 questions each of chapters 1, 2, 3 and 4 other than text book. 3. Solve board papers of last three years from chapter 1, 2, 3 and 4 only.
Biology	<ol style="list-style-type: none"> 1. Revise and learn the chapter taught to you before summer vacation. 2. Solve the previous year's CBSE board question worksheets provided to you. 3. Make an Investigatory project on any topic from your Class XII syllabus.
Information Practices	<ol style="list-style-type: none"> 1. Write 10 Programs from Series in HW copy. 2. Write 10 Programs from DataFrame in HW copy. 3. Read the chapter-“Python Pandas-I”. 4. Plan for the topic of the project, group members in the project and submit the same after summer break.
Computer Science	<ol style="list-style-type: none"> 1. Write short note in functions, its uses, and its advantages? 2. Write short note on python library functions? 3. Design python programs 1-D series and 2- D series (3 each) using functions? 4. Design programs for searching (linear) and sorting (bubble) using list through functions? 5. Explain the concept of dictionary in python programming?
Economics	<ol style="list-style-type: none"> 1. Make a project in file and submit it in all respect. The topic has been allotted to individual students in the class. 2. Draw a chart of Government Budget and explain various component with full details. 3. Solve 10 numerical problems of “Determination of Income, Output and Employment”.
AI	<ol style="list-style-type: none"> 1. What do you mean by capstone project? 2. Plan for the topic of the capstone project, group members in the project and their responsibilities in the capstone project and submit the same after summer break. 3. Can you imagine 5 jobs / professions that do not exist now but may be popular in 2035?