

SUMMER HOLIDAYS HW (2026-27)
CLASS XII A and XII B

PHYSICS

1. Solve all NCERT Exercise Questions (solved & un-solved) and Exemplar Questions of Electrostatics and Current Electricity:
Chapter 1. <https://ncert.nic.in/pdf/publication/exemplarproblem/classXII/physics/leep101.pdf>
Chapter 2. <https://ncert.nic.in/pdf/publication/exemplarproblem/classXII/physics/leep102.pdf>
Chapter 3. <https://ncert.nic.in/pdf/publication/exemplarproblem/classXII/physics/leep103.pdf>
2. Practice the questions of Electrostatics given in following links:
a. https://drive.google.com/file/d/1_q8oR2KY1EDa1FD5hyuZOSQA_L_TTiMK/view?usp=sharing
b. https://drive.google.com/file/d/1PsZmMstBTBhfE5wGFn0aT2c49hzob_l8/view?usp=sharing
3. Prepare a Working Model /Investigatory Project and its Report (Soft Copy) :

The project is a part of CBSE practical syllabus to the project is to be prepared in a separate file on the topic assigned to you in class group.

The pages of the file should have the following content

First page: Title of the project name of student CBSE roll number

Second page: Certificate

Third page: Acknowledgement

Fourth page: Index

Middle pages: Description of Project, Apparatus, Diagram, Procedure, Observation Table, Calculation, Result and Precautions

Last page: Bibliography

Put your creativity to make the project report visually appealing and have a thorough, Scientific investigations and collect information from other sources.

CHEMISTRY



1. Solve the following assignments of chapter 1, 2 and 6, the links of which are given below
Unit 1: <https://ncert.nic.in/pdf/publication/exemplarproblem/classXII/chemistry/leep502.pdf>
Unit 2: <https://ncert.nic.in/pdf/publication/exemplarproblem/classXII/chemistry/leep503.pdf>
2. Make a project report on A4 sheets on the topic assigned to you. (Roll number wise list of project allotment and the instructions to make the project will be provided in the class groups). Put your creativity to use to make the project report visually appealing.
Scientific investigations involving laboratory testing and collecting information from other sources.
A few suggested Projects-
 - b) Study of the presence of oxalate ions in guava fruit at different stages of ripening.
 - c) Study of quantity of casein present in different samples of milk.
 - d) Preparation of soyabean milk and its comparison with the natural milk with respect to curd formation, effect of temperature, etc.
 - e) Study of the effect of Potassium Bisulphate as food preservative under various conditions (temperature, concentration, time, etc.)
 - f) Study of digestion of starch by salivary amylase and effect of pH and temperature on it.
 - g) Comparative study of the rate of fermentation of following materials: wheat flour, gram flour, potato juice, carrot juice, etc.
 - h) Extraction of essential oils present in Saunf (aniseed), Ajwain (carum), Illaichi (cardamom).
 - l) Study of common food adulterants in fat, oil, butter, sugar, turmeric powder, chilli powder and pepper.

ENGLISH

INTERNAL ASSESSMENT: PROJECT WORK

In accordance with the guidelines issued by CBSE regarding the English Project, students are required to prepare a project to their respective teachers. Once the Project report is submitted, there will be an individual VIVA based on the respective research. Kindly keep your rough sketch, audio/video clips and photographs safe as an authentic PROOF of work done by you.

The project may be based on:

- Interview based Research
- Project
- Survey
- Report
- Podcast/Interview/Radio/ TV Documentary
- Creating your own Video/Audio
- Write, direct and present a Theatrical/One Act Play

Project-Portfolio/ Project Report

The Project-Portfolio/Project Report is a compilation of the work that the students produce during the process of working on their ALS Project. The Project-Portfolio must include the following:

1. Cover page, with the title of the project, school details/details of students.
2. Statement of purpose/objectives/goals
3. Acknowledgement
4. Certificate of completion under the guidance of the teacher.
5. Index
6. Driving Questions
7. Action plan for the completion of assigned tasks (Steps involved in doing the project work)
8. Materials such as scripts for the theatre/role play, questionnaires for interviews, written assignments, essays, survey reports, and other material evidence of learning progress.
9. The 800-1000 words essay/Script/Report.
10. Student reflections.
11. Photographs that capture the positive learning experiences of the student.
12. Quotations and poems supporting the topic.
13. Photographs to support the topic
14. Academic accomplishments.
15. List of resources/bibliography.

PREPARE A HARD COPY AS WELL AS A DIGITAL COPY



MATHS

NCERT EXEMPLAR BOOK

1. Ch. 01 (Relations & Functions)
Exercise (Question 01 to 62) (Except Question Numbers 26, 27, 34 & 62)
Chapter Link :
<https://ncert.nic.in/pdf/publication/exemplarproblem/classXII/mathematics/leep201.pdf>
2. Ch. 03 (Matrices)
Exercise (Question 31 to 52 & 68 to 101)
Chapter Link :
<https://ncert.nic.in/pdf/publication/exemplarproblem/classXII/mathematics/leep203.pdf>
3. Ch. 04 (Determinants)
Exercise (Question 18 to 21 & 48 to 54)
Chapter Link :
<https://ncert.nic.in/pdf/publication/exemplarproblem/classXII/mathematics/leep204.pdf>

LAB ACTIVITIES

4. Activity Number 01 to 10
(Given in Class
WhatsApp Group)

Amrinder Singh

BIOLOGY

1. Complete copy up to third chapter.
2. Learn lesson 1 to 3 for first periodic test.
3. Complete file work.
4. Practice all the diagrams of 1 to 3.
5. Investigatory project.

Shub

Sh

हिंदी

1- निम्नांकित विषयों पर रचनात्मक लेख लिखें ।।

(क) वर्तमान जीवन शैली और स्वास्थ्य

(ख) किशोरों में बढ़ती स्क्रीन लत

(ग) स्कूल के बाहर स्टेशनरी की दुकान

2- निम्न प्रश्नों के उत्तर लिखें

(क) नए युग के वह कौन से मानक थे जिनसे यशोधर बाबू की असहमति थी और क्यों? नए युग के उन

मानकों की वर्तमान संदर्भ में प्रासंगिकता स्पष्ट कीजिए।

(ख) "संबंधों की प्रगाढ़ता आत्मीयता के भावों से उत्पन्न होती है" कथन को भक्ति पाठ के आधार पर स्पष्ट कीजिए।

Amrinder Singh

PHYSICAL EDUCATION

1. Complete practical Manual
2. Write Procedure of Asanas, Benefits and contradiction for any two Asans for each Lifestyle diseases.
 - a. Obesity
 - b. Diabetes
 - c. Asthma
 - d. Hypertension
 - e. Back Pain

Anshu

COMPUTER SCIENCE (Python Revision Tour)

1. What is Python? Define tokens.
2. What is Data Type in Python?
3. What do you mean by Operators? Define Arithmetic, Relational & Logical
4. operators.
5. Difference between Conditional Statements and Loops?
6. Difference between list and tuple?

Anam

12 A - MS. ANUJA BHATIA

12 B - MR. AMBUJ TRIPATHI

INSTRUCTIONS

- ❖ Refer videos available on YouTube, relevant to your topic.
- ❖ Listen to podcasts, documentaries, interviews etc. on the given topics
- ❖ Do a thorough exploration and research on the topic assigned.
- ❖ Self-opinion/suggestions/measures/viewpoints/its impact on people.
- ❖ State the name of various speakers/people (in the given documentaries/video links), quote them and express their viewpoints
- ❖ The project should be neat, legible, with an emphasis on quality of content, accuracy of information, creative expression, proper sequencing and should be relevant as per topic assigned.
- ❖ **PROJECT TO BE HAND WRITTEN.**
- ❖ No repetition or copying of project work would be accepted.
- ❖ Not to share work with anyone. If the examiner points out any repetition or copying of the project, the consequences would be unpleasant.
- ❖ No marks will be awarded for a casual approach of completing the project
- ❖ Topics are assigned Roll-No Wise. Make individual project report.

TOPICS FOR PROJECT

S. NO.	TOPIC
1.	Air Warriors: A Thing of Beauty
2.	Mental wellness is as important as physical wellness
3.	Gender Sensitization: A Necessity for women Safety
4.	United Nation Organization: Relevance in current world dynamics
5.	Government Schemes and Social Security: A reality check
6.	Artificial Intelligence: Humanity's greatest invention or biggest threat
7.	Prominent Indian English Authors and their Impact on Culture
8.	Child Labour and existing laws in India
9.	Indian Cinema: Evolution and Cultural Significance
10.	Impact of social media on Youth: Positive and Negative Impact
11.	Climate Change: Cause, effect and Solutions
12.	Cyber Arrest: Mode of Operation and Solution
13.	How the reels culture is affecting focus and concentration of youth
14.	Peace is not free: Why strong armed forces matter

RUBRICS for assessment of project portfolios:

- Quality of content of the project
- Accuracy of information
- Adherence to the specified timeline
- Content in respect of (spellings, grammar, punctuation)
- Clarity of thoughts and ideas
- Creativity
- Contributions by group members
- Knowledge and experience gained

RUBRICS for SPOKEN Assessment (To be conducted in January):

Interaction, Pronunciation, Vocabulary & Grammar, Accuracy, Communication, Fluency & Coherence