



Holiday Homework

CLASS-12

SESSION (2026-2027)

CHEMISTRY (CODE-043)

- Revise Unit-1 (Solutions), Unit-2 (Electrochemistry), Unit-3 (Chemical Kinetics) and Unit-10 (Biomolecules).
- Learn and revise the practical done in Laboratory. Complete your practical file with all the experiments done in class.
- Do practice all the NCERT In text and Back Exercises of all the four Chapters of Chemistry.

Prepare the project as assigned to you by your teacher for AISSCE assessment by CBSE.
Submitted in MY CLEAR BAG

<u>Each project must contain:</u>	
The Title sheet representing the name of the School, the name of the project, School LOGO., Submitted to CENTRAL BOARD OF SECONDARY EDUCATION, SESSION-2026-2027, In the partial fulfilment of AISSCE examination, on colored or white A3 sheets with spiral binding.	
Submitted by:	Under supervision of:
	Mrs Mamta Kakkar
Name of Student	Chemistry Lecturer
Board Roll No.....	
• An Acknowledgement Sheet duly signed by student with name in Bold letters	
• A Bonafide Certificate duly signed by Head of Department and Principal	
• Introduction of the Project	
• Index	
• Content	
• Bibliography	
• This is to be hand written with the data collected from different resources on A3 size hard ruled sheets.	
• Practically, it could be performed in the Lab in the month of July, if required.	
• It has to be submitted with complete Data before Term I.	
• Plagiarism is to be checked.	



Sacred Heart Convent Sr. Sec. School

Tejli Road, Jagadhri, Haryana, India

R.NO.	STUDENT'S NAME	PROJECT
1	Aaditya Goel	Tests for pollutants in contaminated water
2	Aarav Bawa	Preparation of Biodiesel
3	Aayushmann Parmar	Formation of Rayon from Filter paper
4	Aditya Goel	Oxalate ion in Guava Fruit
5	Akshra Saini	Potash Alum From Aluminium Foil
6	Charu Khetarpal	Tea -Caffeine Content
7	Eshani Gupta	Presence of Carbohydrates, Fats, Oils and Proteins in Food Stuffs
8	GAVIKA	Digestion of Starch by Salivary amylase
9	Hardik Sarao	Rusting of Iron
10	Harkul Jasanjot Singh Deswal	Foaming capacity of soaps & detergents
11	Kanupreet Kaur	Fermentation of juices
12	Kritika	Adulteration of Foods
13	Kshirja	Separating DNA from pea
14	Lavanya Anant	Osmosis demonstration
15	Lavanya Chhibber	Brass
16	Manan	Content of cold drinks
17	Naitik Sharma	Bronze
18	Neksha	Evaporation of Liquids and Factors affecting it
19	Nirmit Lamba	Preparation of Aspirin
20	Pranshu Aggarwal	Tests for pollutants in contaminated water
21	Sahib Kaur	Preparation of Biodiesel
22	Sameer Sirswal	Formation of Rayon from Filter paper
23	Satvik Garg	Oxalate ion in Guava Fruit
24	Savar Gupta	Potash Alum From Aluminium Foil
25	Shaurya Kumar Aggarwal	Tea -Caffeine Content
26	Sohail Kapoor	Presence of Carbohydrates, Fats, Oils and Proteins in Food Stuffs
27	Utkarsh Sood	Digestion of Starch by Salivary amylase
28	Yashika	Rusting of Iron
29	Yuvraj Kumar Aggarwal	Tea -Caffeine Content
R.NO.	STUDENT'S NAME	PROJECT NAME
1	Aadhira Garg	Tests for pollutants in contaminated water
2	Aarav Chanana	Preparation of Biodiesel
3	Bhavya Garg	Formation of Rayon from Filter paper
4	Bhavy Goyal	Oxalate ion in Guava Fruit
5	Cheshta Sharma	Potash Alum From Aluminium Foil
6	Divyansh Kamboj	Tea -Caffeine Content

Tel: +91-9275567886

Website: www.shcsjagadhri.org

Email: contact@shcsjagadhri.org



7	Divyanshi	Presence of Carbohydrates, Fats, Oils and Proteins in Food Stuffs
8	Elphida	Digestion of Starch by Salivary amylase
9	Gourish Singh	Rusting of Iron
10	Manasvi	Foaming capacity of soaps & detergents
11	Mansha	Fermentation of juices
12	Palak Saini	Adulteration of Foods
13	Prabal Kaushik	Separating DNA from pea
14	Prisha Singla	Osmosis demonstration
15	Puspa Kujur	Brass
16	Rahat Khurana	Content of cold drinks
17	Shreya	Evaporation of Liquids and Factors affecting it

Submitted by: MAMTA
KAKKAR
(Chemistry Department)

PHYSICS

ASSIGNMENT- 2026

- Completion of theory note books {as per the syllabus completed }
- Prepare & Record minimum 10 MCQ questions / answers from each topic as per NCERT text.
- Solve , memorise & record numerical { as per syllabus completed } from NCERT books in note book
- Solve the questionnaire as uploaded on e- care.
- Completion of demonstration experiment as per the assigned topic & making of demonstration file.
- Completion of practical file as per the number of practical completed.
- Submission of theory note books & practical file on opening day
- On opening day of school , prepare for the evaluation of Unit -2 : Current & electricity.



Syllabus Update [Theory]

Unit I: Electrostatics

Chapter–1: Electric Charges and Fields

- Electric charges, Conservation of charge, Coulomb's law-force between two- point charges, forces between multiple charges; superposition principle and continuous charge distribution. Electric field, electric field due to a point charge, electric field lines, electric dipole, electric field due to a dipole, torque on a dipole in uniform electric field. Electric flux, statement of Gauss's theorem and its applications to find field due to infinitely long straight wire, uniformly charged infinite plane sheet and uniformly charged thin spherical shell (field inside and outside).

Chapter–2: Electrostatic Potential and Capacitance

- Electric potential, potential difference, electric potential due to a point charge, a dipole and system of charges; equipotential surfaces, electrical potential energy of a system of two-point charges and of electric dipole in an electrostatic field.
- Conductors and insulators, free charges and bound charges inside a conductor. Dielectrics and electric polarization, capacitors and capacitance, combination of capacitors in series and in parallel, capacitance of a parallel plate capacitor with and without dielectric medium between the plates, energy stored in a capacitor (no derivation, formulae only).



Unit II: Current Electricity

Chapter-3: Current Electricity

- Electric current, flow of electric charges in a metallic conductor, drift velocity, mobility and their relation with electric current; Ohm's law, V-I characteristics (linear and non-linear), electrical energy and power, electrical resistivity and conductivity, temperature dependence of resistance, Internal resistance of a cell, potential difference and emf of a cell, combination of cells in series and in parallel, Kirchhoff's rules, Wheatstone bridge

Syllabus Update (Laboratory)

1. Prism
2. Refractive index of water by concave mirror
3. Refractive index of water by convex lens
4. Refractive index of glass slab by microscope
5. Lateral Displacement in glass slab

BIOLOGY

1. Make a project report on designer 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.

It should include:

- Cover page
- Index
- Acknowledgement
- Certificate
- Introduction
- Details about the project
- Annexure
- Bibliography



2. Watch any two of the following documentaries and write your reviews in your Biology notebook.

(a) Human Evolution

<https://www.youtube.com/watch?v=ehV-MmuvVMU>

(b) Sir David Attenborough's documentary on Charles Darwin

<https://www.youtube.com/watch?v=5x6KQvtOg-s>

(c) The Sixth Extinction

<https://www.youtube.com/watch?v=rVwRnRYdiJ0>

(d) Ramsar sites

<https://www.youtube.com/watch?v=z8oDKMOdfpQ>

(You may also read books on Climate, Sustainability, Evolution etc.)

English

1. Prepare your project file and follow the instructions listed in the class.
2. The project file is to be submitted on 30th July.
3. Read the chapters thoroughly, done in class.
4. Write notes for poetry
 - a. Paraphrasing
 - b. Poetic devices
 - c. Theme of the poem
 - d. Message conveyed by the poem.

MATHEMATICS

- Revise the following Chapters & Do MCQ's from book Elements of:
- Matrices & Determinants
- Differentiation
- Application of Derivatives
- Probability (Independent Events, Conditional Probability)



PHYSICAL EDUCATION

You are required to prepare the following:

A3 sheet

Project File-1: Any One Games

Project File-2: Any 5 Yoga Asanas

Practical File: Complete all given experiments/activities.

Note: This assignment is only for students of Classes 11 and 12

Music

* Revise the taals done in the class (written and on hand beats as well)

Revise the Ragas done in the class along with alaps n' taans.

* Prepare mcq, shortsnotes and definitions done in the class.

* Prepare project file(Bharat Publication)

1. Diagram of Tanpura , introduction n' tuning of Tanpura

2. Time theory of ragas

3. Short notes:-

Dhrupad

Khayal

Tarana

Ghrana

4. Life sketch:-

* Ustaad Fayaz khan

* Ustaad Bade Ghulam Ali Khan

INFO PRACTICES

Revise the syllabus done in the class. Practice Database concepts and MySQL commands.

Business Studies

Solve five Case Study related questions from each chapter (chapter 1,2,3,4)



Accountancy

Solve the following unsolved questions from DK Goel

Fundamentals

80,91,100,78,74,72,64,40,18,4,18,40,64,72,74

Change in profit sharing ratio

46,41,22,16,39,62,

Admission of a partner

107,75,73,71,69,63,59,36,24

Economics

Learn and Revise

Unit 1 National Income and related aggregates

Unit 2 Money and Banking

Project work

From Indian economic development

1. Environment and sustainable development
2. Human capital formation and rural development

From Macro

1. Money and banking
2. Excess demand and deficient demand
3. Government budget and economy
4. Foreign Exchange
- 5 Balance of payment

History-

Revise the syllabus.

Prepare your Project work as discussed in the class.

Political Science-

Revise the work done the class and prepare your project file.

Sociology -

Revise the work done in the class and prepare your project work.



Applied Mathematics -

- Make a project report on following topics:

1. Stock price movement
2. Investigating Graphs of functions for their properties

- Write practicals done on spreadsheets on the following topics:

- i) Plot the graphs of functions on excel and study the graph to find out the point of maxima / minima
- ii) Probability and dice roll simulation
- iii) Matrix multiplication and the inverse of a matrix
- iv) Stock Market data sheet on excel

Note: Project report and practical file should be separate and should be done on assignment sheets.

PSYCHOLOGY -

Dear Students,

Complete the following work neatly in your Psychology notebook/file during the summer vacation.

Theory Work

- Read Chapter 1 to Chapter 4 thoroughly.
- Complete all Review Questions/Exercises from each chapter.
- Prepare concise handwritten notes of important points.

Reflection Activity

After every chapter, write a short Reflection Note (150–200 words) mentioning:

- Concepts you enjoyed learning
- New understanding gained
- Topics you wish to explore further

Practical Work

Write Practical File No. 2 and 3 neatly in the practical notebook.

Note: Administration and scoring of the practicals will be conducted in class before the commencement of summer vacation.



Enrichment Activity (Optional)

Choose any ONE activity:

1. Psychology Movie Review

Watch any one psychology-related movie and prepare a review based on psychological concepts.

Suggested Movies:

- Dear Zindagi
- The Pursuit of Happyness
- A Beautiful Mind
- Inside Out

2. Emotion Diary

Maintain a daily record of emotions and coping strategies for one week and write a reflective summary.

3. Psychology in Daily Life Scrapbook

Collect and analyze real-life examples related to psychological concepts studied in class.

Homework will be evaluated on the basis of originality, understanding of concepts, presentation, and reflective thinking.