

VIVEKANAND — PUBLIC SCHOOL —

Holiday HOMEWORK

Class XII

(Session 2026-27)



GENERAL INSTRUCTIONS FOR STUDENTS

1. Read the instructions for each subject carefully before starting the work.
2. Write your name, class, section, and roll number clearly on every file, sheet, chart, and project folder.
3. Maintain neat handwriting, proper margins, and clean presentation in every subject.
4. Use the required sheet sizes and materials exactly as mentioned (A4, A3, chart paper, 3D models, etc.).
5. Complete the work independently and creatively. Avoid copying directly from the internet or from others.
6. Where assignment links are given, complete those tasks along with the written/project work.
7. Revise the syllabus and classwork regularly during the holidays, especially PA1-related topics where mentioned.
8. Submit all work on time after the vacation in a complete and well-organized manner.
9. Submit all work on time after the vacation in a complete and well-organized manner.

CBSE SEVA PROJECT GUIDELINES FOR CLASS XII- HOLIDAY HOMEWORK

Title of the Project

Project Green Shield: Creating Bio-Enzymes from Citrus Kitchen Waste

◇ **Objective**

To reduce chemical water pollution and household waste by recycling citrus kitchen scraps into a 100% natural, non-toxic bio-enzyme cleaner, while promoting sustainable waste management practices within the local neighborhood.

◇ **Planning and Preparation**

Target & Timeline: I planned a 4-week project to manage household organic waste. My target was to divert all citrus peels generated in my kitchen from the dustbin and convert them into a natural cleanser.

Materials Gathered: I collected clean plastic bottles (recycled bottles work best as the gas buildup requires flexible containers), jaggery (gur), water, and fresh citrus peels (lemon and orange).

Ratio Formulation: Based on eco-friendly guidelines, I measured the ingredients in a strict 1:3:10 ratio: 1 part jaggery (100 grams), 3 parts citrus peels (300 grams), and 10 parts water (1 liter).

Community Engagement: I prepared a small digital infographic explaining how chemical floor cleaners contain toxic ingredients like ammonia and chlorine, which harm aquatic life when washed down the drain, and how bio-enzymes offer a safe shield for the environment.

◇ **Execution/Implementation**

Step 1 (The Setup): On Day 1, I dissolved the jaggery in water inside a large plastic container. I chopped the citrus peels into small pieces to accelerate fermentation and added them to the solution, leaving about 20% empty space at the top for gas release.

Step 2 (The Fermentation Process): For the first two weeks, I manually opened the cap of the bottle once every day for a few seconds to release the accumulated carbon dioxide gas (aeration) and stirred the mixture to prevent mold.

Step 3 (Harvesting): By the end of the fourth week, the peels had settled down, and the liquid turned a clear, amber-brown color with a pleasant, citrusy aroma. I strained the liquid using a fine cloth mesh into small, clean spray bottles.

Step 4 (Distribution & Testing): I tested the enzyme at home to clean glass surfaces and kitchen counters, finding it highly effective. I then distributed three sample bottles to my domestic helper and two neighbors, explaining how to dilute it with water (1:10 ratio) for daily floor mopping and cleaning.

◇ **Reflections**

This project completely changed my perspective on "garbage." I realized that a significant portion of our daily kitchen waste can be actively repurposed instead of rotting in a landfill. Developing the patience to monitor the fermentation process daily taught me consistency and responsibility.

When my neighbors reported back that the bio-enzyme worked beautifully and left a fresh scent without triggering their skin allergies, I felt a deep sense of civic pride. This project proved to me that major environmental protection starts with tiny, conscious changes in our daily household routines.

◇ **Photographs (with Captions)**

Photograph 1: Gathering the raw materials: Weighing the jaggery and citrus peels in the accurate 1:3 ratio.

Photograph 2: The fermentation setup: Mixing the solution in a plastic bottle and labeling it with the start date.

Photograph 3: Harvesting the shield: Straining the fermented amber liquid into recycled spray bottles.

Photograph 4: Community outreach: Handing over the natural bio-enzyme cleaner samples to the apartment housekeeping staff.

◇ **Acknowledgements**

I express my gratitude to our school Principal and my class coordinator for providing us with the CBSE SEVA platform to implement practical solutions for our environment. I am also extremely thankful to my parents for supporting me during the kitchen waste collection phase, and to my neighbors for trying out the bio-enzyme cleaner and providing valuable feedback.

◇ **Format Check for the Student:**

Word Count: ~680 words (perfectly within the 500–800 words limit).

Submission Instructions: Can be handwritten on ruled sheets or typed out and put together in a neat project file/scrapbook. Don't forget to design a creative cover page

ACCOUNTANCY

PROJECT GUIDELINES

Students will prepare a Project File to record their work related to the problems attempted by them in the following format:

1. First page of the file should describe title of work, identity of student, school, and the teacher concerned.
2. Index to indicate columns for title of work, page no., date, teacher's remarks and signature.
3. The format for Project Work will be:

- ★ Statement of the problem / Name of the Project
- ★ Objectives
- ★ Period of Study
- ★ Source Material
- ★ Tools of Analysis used
- ★ Processing and Tabulation of data
- ★ Diagrammatic / graphic presentation – pie-diagrams, bar diagrams and graphs.
- ★ Derivations, Interpretation and Conclusion.
- ★ Assumptions (if any)

Project File should be neatly handwritten and presentable with page numbers. Each step of the solution needs to be highlighted. Conclusions drawn should be placed in boxes at the end.

Assignment Link:

https://drive.google.com/file/d/14D3r_xFbQIxyvp2sIEXGPHsh4a2og3lF/view?usp=drivesdk

BIOLOGY

Project Work

Prepare a project based on your syllabus. The project should be based on the following headings:

- Title of the Project
- Index
- Reason / Relevancy for Choosing the Topic
- Introduction of the Topic
- Detailed Information of the Topic
- Research Work / Case Studies
- Conclusion
- Bibliography

- Prepare your practical record and complete all practicals in it.
- Complete the given assignments in the homework notebook.

Assignment Link:

https://docs.google.com/document/d/1yQnNs_5IHJTVIkTjWcOE5dtIilh51CLFwyaoK-7oEQU/edit?usp=drivesdk

BUSINESS STUDIES

Q1. Do the questions given in the Question Bank in your Assignment Register.

Q2. Do any ONE project as per the guidelines given below.

Guidelines for Project of Business Studies (2026–27)

Option I: Principles of Management

The students are required to visit any one of the following:

- A departmental store
- An industrial unit
- A fast food outlet
- Any other organisation approved by the teacher

They are required to observe the application of the general Principles of Management advocated by Fayol.

Fayol's Principles

- Division of work.
- Unity of command.
- Unity of direction.
- Scalar chain.
- Espirit de corps.
- Fair remuneration to all.
- Order.
- Equity.
- Discipline.
- Subordination of individual interest to general interest.
- Initiative.
- Centralisation and decentralisation.
- Stability of tenure.

OR

They may enquire into the application of scientific management techniques by F.W. Taylor in the unit.

- Scientific techniques of management.
- Functional foremanship.
- Standardisation and simplification of work.
- Method study.
- Motion Study.
- Time Study.
- Fatigue Study.
- Differential piece rate plan.

Students may use worksheets, questionnaires, interviews, and organisational charts, etc.

Option II: Marketing

Students can select any one product from the list below (excluding items like alcohol, pan masala, or tobacco):

Adhesives, Air conditioners, Baby diapers, Bathing Soap, Bathroom cleaner, Bike, Blanket, Body Spray, Bread, Breakfast cereal, Butter, Camera, Car, Cheese spreads, Chocolate, Coffee, Cosmetology product, Crayons, Crockery, Cutlery, Cycle, DTH, Eraser, e-wash, Fairness cream, Fans, Fruit candy, Furniture, Hair Dye, Hair Oil, Infant dress, Inverter, Jams, Jeans, Jewellery, Kurti, Ladies bag, Ladies footwear, Learning Toys, Lipstick, Microwave oven, Mixers, Mobile, Moisturizer, Music player, Nail polish, Newspaper, Noodles, Pen, Pen drive, Pencil, Pickles, Razor, Ready Soups, Refrigerator, RO system, Roasted snacks, Salt, Sarees, Sauces/Ketchup, Shampoo, Shaving cream, Shoe polish, Shoes, Squashes, Suitcase/airbag, Sunglasses, Tea, Tiffin Wallah, Toothpaste, Wallet, Washing detergent, Washing machine, Washing powder, Water bottle, Water storage tank, Wipes

The project should address:

- Why have they selected this product/service?
- Find out 5 competitive brands that exist in the market.
- What permissions and licences would be required to make the product?
- What are your competitors' Unique Selling Propositions (USP)?
- Does your product have any range – give details?
- What is the name of your product? Enlist its features.
- Draw the Label and Logo of your product.
- Draft a tagline.
- What is the selling price of your competitor's product? (Consumer / Retailer / Wholesaler)
- What is the profit margin (%) to Manufacturer, Wholesaler, and Retailer?
- How will your product be packaged?
- Which channel of distribution will you use? Give reasons.
- Decisions related to warehousing – state reasons.
- List 5 ways of promoting your product.
- Schemes for: Wholesaler / Retailer / Consumer.
- What is your USP?
- What means of transport will you use and why?
- Draft a social message for your label.

Presentation & Submission of Project Report

- Total length: 25 to 30 pages, handwritten.
- Present in a neat folder.
- Cover page: title, student info, school and year.
- List of contents.
- Acknowledgements and preface.
- Introduction.
- Topic with suitable headings.
- Planning and activities done during the project.

- Observations and findings.
- Conclusions and future scope.
- Photographs (if any).
- Appendix, Teacher's observation, Signatures.

Assessment – Allocation of Marks (20 Marks)

S.No.	Criteria	Marks
1	Initiative, cooperativeness and participation	2 Marks
2	Creativity in presentation	2 Marks
3	Content, observation and research work	4 Marks
4	Analysis of situations	4 Marks
5	Viva	8 Marks
	TOTAL	20 Marks

Assignment Link:

https://drive.google.com/file/d/19PmcUCDxVbnqoTTfB6o3uJCr5EY_lbmw/view?usp=drivesdk

CHEMISTRY

Investigatory Project (CBSE Requirement)

Select a research topic and prepare a "Project Proposal" including:

- Objective
- Apparatus / Chemicals Required
- Methodology
- Bibliography

Project Report Guidelines

Your project report must include the following elements:

- **Synopsis:** A summary of your idea including the purpose of the experiment, procedure used, data, and conclusion.
- **Title Page:** Centre the project title, and include your name, address, and school.
- **Aim / Objective:** Sets the stage for your report. Include your hypothesis, what prompted your research, and what you hoped to achieve.
- **Scientific Principle Involved:** Describe the principal(s) involved in your experiment.
- **Material Used:** List all items used; this will help you work out the final cost.
- **Method:** Describe in detail the methodology used to collect data or make observations. Your report should be detailed enough for someone to repeat the experiment. Include photographs or drawings of self-designed equipment.
- **Discussion:** Results and conclusions should flow smoothly from your data. Compare results with theoretical values. Include possible errors, variation between repeated observations, and what you would do differently.
- **Conclusion:** Describe the findings and conclusion. Briefly summarize results. Be specific – never introduce anything not previously discussed.
- **Further Scope of Project:** Describe the future scope of your experiment.
- **Acknowledgement:** Give credit to individuals, educational, or research institutions that assisted you.
- **Reference List:** Include all documentation that is not your own: books, journal articles, and specific internet URLs.

Reference Link:

<https://ncert.nic.in/pdf/publication/sciencelaboratorymanuals/classXI/chemistry/kelm208.pdf>

List of Projects According to Roll Number (Class XII – A, B and C)

S. No.	Topic	Roll No. (XII-A, B and C)
1	Preparation of Potash Alum	1, 26
2	Contents of Cold Drink	2, 27
3	Adulterant in Food Samples	3, 28
4	Preparation of Aspirin	4
5	Cations and Anions in Toothpaste	5, 29
6	Cations and Anions in Coconut Water	6, 30
7	Preparation of Soaps	7
8	Preparation of Biodiesel	8
9	To Test the Presence of Insecticides and Pesticides in Fruits and Vegetables	9, 31
10	To Check the Presence of Metals in Coins	10
11	To Test the Presence of Ni in Chocolate	11
12	Cations and Anions in Talcum Powder	12, 32
13	To Compare the Neutralizing Effects of Antacid	13, 33
14	Honey Analysis	14, 34
15	Extraction of Caffeine from Tea/Coffee Sample	15, 35
16	Amount of Acetic Acid in Different Samples of Household Vinegar	16, 36
17	Isolation of Casein from Milk	17
18	Preparation of Cold Cream	18
19	Metal Coupling	19
20	Polymer Ball Making	20
21	Paints & Pigments	21, 37
22	Apple Juice Analysis	22, 38
23	Invisible Ink	23, 39
24	Golden Rain	24
25	Bone Ash Analysis	25, 40

Section C: Experimental Reasoning

1. Van't Hoff Factor

Why does ethanoic acid in benzene show a molar mass of 120 instead of 60? Use a chemical equation to justify.

2. Fuel Cells

Explain the working of a $\text{H}_2\text{-O}_2$ fuel cell and its advantages over thermal power plants.

3. Order vs. Molecularity

Can molecularity be zero? Justify your answer.

Section D: Career Exploration

Write a 200-word summary on "**Green Chemistry**" initiatives by an Indian Pharma company, focusing on waste reduction.

Assignment Link:

<https://drive.google.com/file/d/1rhi7sgaCMKbgL1GMB7Qlxj4CnCHd9ASN/view?usp=drivesdk>

COMPUTER SCIENCE

Instructions

- Create the following programs, execute them and take the screenshot of their outputs.
- Write the program as a comment at the top of the program.
- One program along with output in a single page.
- No front and back printing.
- Create Index as given below.

INDEX

1. Write a menu driven program demonstrating the different types of arguments passed to functions and call them as per requirement.
 - Passing list
 - passing Tuple
 - passing Dictionary to a function as parameters
 - passing String
 - Passing numbers to a function
2. Linear Search using Function
3. Binary Search using Function
4. Sorting
 - Bubble
 - Insertion
5. Text File
 - Create any text file and do all the questions given below based on it.
 - Read a text file and display the number of vowels/consonants/uppercase/lowercase characters in the file.
 - Remove all the lines that contain the character 'a' in a file and write it to another file.
 - Read the text file and count how many time the word “me” or “my present in the file.
 - Read the text file and count how many lines started with ‘The ‘ word in file
 - Read the text file and count total words in each line.
6. Binary File
Create binary file using data on any topic :
Items/suppliers/applicants/company/employee/students/medicines/ customers/passengers
Select any five fields of your choice and create a menu driven program that covers following choices :
 1. Addition
 2. Display all records
 3. Searching
 4. Updation
 5. Deletion
 6. exit
 7. CSV file

Create a CSV file credentials.csv that stores details by entering user-id and password, read and search the password for given userid and display details on screen.

1. Addition 2 Display all records 3. Searching 4 exit

8. Write a program to read following details of sports performance(sport, competition, prizewon) of your school and store into csv file delimited with tab character

9Write a random number generator that generates random numbers between 1 and 6.

10Write a Python program to implement a stack using list(any program from back exercise

DATABASE MANAGEMENT

Q11. SQL – Student Table

Create a student table and insert data. Implement the following SQL commands on the student table:

- INSERT – Add records to the table.
- ALTER TABLE – Add new attributes / modify data type / drop attribute / drop primary key / rename column.
- UPDATE TABLE – Modify existing data.
- ORDER BY – Display data in ascending / descending order.
- DELETE – Remove tuple(s) from the table.
- GROUP BY – Find MIN, MAX, SUM, COUNT, and AVERAGE.
- SELECT STATEMENT – Use all clauses (WHERE, HAVING, ORDER BY, GROUP BY, etc.).

NOTE: All database questions require screenshots of the commands used for creation, addition of records, and all queries on that table.

Q12. Single Table Query – 1

Write any SQL query based on a single table of your choice. The query should demonstrate use of aggregate functions / conditions / ordering.

NOTE: Paste screenshot of the SQL query and its output below.

Q13. Single Table Query – 2

Write another SQL query based on a single table of your choice. The query should demonstrate a different clause or function from Q12.

NOTE: Paste screenshot of the SQL query and its output below.

Q14. Two Tables – COMPANY & CUSTOMER

Write SQL commands for the creation of both tables and queries (i) to (iv) based on the following two tables:

COMPANY TABLE:

CID	NAME	CITY	PRODUCTNAME
111	SONY	DELHI	TV
222	NOKIA	MUMBAI	MOBILE
333	ONIDA	DELHI	TV
444	SONY	MUMBAI	MOBILE
555	BLACKBERRY	MADRAS	MOBILE
666	DELL	DELHI	LAPTOP

CUSTOMER TABLE:

CUSTID	NAME	PRICE	QTY	CID
101	ROHAN SHARMA	70,000	20	222
102	DEEPAK KUMAR	50,000	10	666
103	MOHAN KUMAR	30,000	5	111
104	SAHIL BANSAL	35,000	3	333
105	NEHA SONI	25,000	7	444
106	SONAL AGGARWAL	20,000	5	333
107	ARUN SINGH	50,000	15	666

Queries:

- i. To display those company names which are having prize less than 30000.
- ii. To display the name of the companies in reverse alphabetical order.
- iii. To increase the prize by 1000 for those customers whose name starts with 'S'.
- iv. To add one more column totalprice with DECIMAL(10,2) to the table CUSTOMER.

NOTE: Paste screenshots of all SQL commands and their outputs below.

Q15. Two Table Query – Similar Query 1

Write a SQL query involving a JOIN or sub-query using any two related tables of your choice. The query should retrieve meaningful data from both tables.

NOTE: Paste screenshot of the SQL query and its output below.

Q16. Two Table Query – Similar Query 2

Write another SQL query involving a JOIN or sub-query using any two related tables of your choice. The query should differ from Q15 in the type of join or conditions used.

NOTE: Paste screenshot of the SQL query and its output below.

Q17. All Types of Joins

Show all types of joins based on two tables. Demonstrate each of the following:

- INNER JOIN – Returns rows with matching values in both tables.
- LEFT JOIN (LEFT OUTER JOIN) – Returns all rows from the left table and matched rows from the right.
- RIGHT JOIN (RIGHT OUTER JOIN) – Returns all rows from the right table and matched rows from the left.
- FULL OUTER JOIN – Returns all rows when there is a match in either table (or simulate using UNION in MySQL).
- CROSS JOIN – Returns the Cartesian product of both tables.

NOTE: Paste screenshots of each type of join query and its output below.

Q18. Python–SQL Connectivity – Program 1

Write a menu driven program using Python and SQL connectivity. The program should allow the user to perform database operations interactively through a menu. (Based on a table of your choice.)

NOTE: Execute the program and paste screenshot of each menu option's output below.

Q19. Python–SQL Connectivity – Program 2

Write another menu driven program using Python and SQL connectivity, covering a different use-case or table from Q18.

NOTE: Execute the program and paste screenshot of each menu option's output below.

Q20. Python–SQL Connectivity – Program 3

Write a third menu driven program using Python and SQL connectivity. This program should demonstrate a more advanced operation such as searching, filtering, or report generation.

NOTE: Execute the program and paste screenshot of each menu option's output below.

PROJECT WORK

Aim of the Project

The aim of the class project is to create something that is tangible and useful using Python file handling / Python–SQL connectivity.

Group & Timeline

- This should be done in groups of two to three students.
- The project should be started at least 6 months before the submission deadline.

Objective

The aim is to find a real-world problem that is worthwhile to solve. Students are encouraged to visit local businesses and ask them about the problems they are facing.

Example: If a business is finding it hard to create invoices for filing GST claims, students can do a project that takes the raw data (list of transactions), groups the transactions by category, accounts for the GST tax rates, and creates invoices in the appropriate format.

Scope of Creativity

Students can be extremely creative. They can use a wide variety of Python libraries to create user-friendly applications such as:

- Games
- Software for their school
- Software for their disabled fellow students

- Mobile applications

Of course, to do some of these projects, some additional learning is required – this should be encouraged. Students should know how to teach themselves.

Important Note

Students should be sensitized to AVOID PLAGIARISM and violations of COPYRIGHT issues while working on projects. Teachers should take necessary measures for this.

Assignment Link

[https://drive.google.com/file/d/1CXw71-H_pzIpEAbPIZU9r62cLTffloYr/view?usp=drive link](https://drive.google.com/file/d/1CXw71-H_pzIpEAbPIZU9r62cLTffloYr/view?usp=drive_link)

ECONOMICS

Project Guidelines

Learners may work upon the following lines as a suggested flow chart:

1. Choose a title/topic
2. Collection of research material/data
3. Organisation of material/data
4. Present material/data
5. Analysing the material/data for conclusion
6. Introduction of topic/title
7. Identifying the causes, consequences and/or remedies
8. Various stakeholders and effect on each of them
9. Advantages and disadvantages of the situations or issues identified
10. Short-term and long-term implications of economic strategies suggested
11. Validity, reliability, appropriateness and relevance of data used

Mode of Presentation/Submission of the Project

At the end of the stipulated term, each learner will present the research work in the Project File to the External and Internal examiner. The questions should be asked from the Research Work/ Project File of the learner. The Internal Examiner should ensure that the study submitted by the learner is his/her own original work. In case of any doubt, authenticity should be checked and verified

Class XII	
• Micro and Small Scale Industries	• Food Supply Channel in India
• Contemporary Employment situation in India	• Disinvestment policy of the government
• Goods and Services Tax Act and its Impact on GDP	• Health Expenditure (of any state)
• Human Development Index	• Inclusive Growth Strategy
• Self-help group	• Trends in Credit availability in India
• Monetary policy committee and its functions	• Role of RBI in Control of Credit
• Government Budget & its Components	• Trends in budgetary condition of India
• Exchange Rate determination – Methods and Techniques	• Currency War – reasons and repercussions
• Livestock – Backbone of Rural India	• Alternate fuel – types and importance
• Sarwa Siksha Abhiyan – Cost Ratio Benefits	• Golden Quadrilateral- Cost ratio benefit
• Minimum Support Prices	• Relation between Stock Price Index and Economic Health of Nation
• Waste Management in India – Need of the hour	• Minimum Wage Rate – approach and Application
• Digital India- Step towards the future	• Rain Water Harvesting – a solution to water crises
• Vertical Farming – an alternate way	• Silk Route- Revival of the past
• Make in India – The way ahead	• Bumper Production- Boon or Bane for the farmer
• Rise of Concrete Jungle- Trend Analysis	• Organic Farming – Back to the Nature
• Any other newspaper article and its evaluation on basis of economic principles	• Any other topic

Assignment Link:

<https://docs.google.com/document/d/1mGLHPkwDtg-IciHBp6bzBl1SgQxWlj4ipCYeBEGYox4/edit?usp=drivesdk>

ENGLISH

Q1. Complete the project taking ideas from the guidelines given below. It has to be made on A4 sized sheets and enclosed in a beautiful file.

Q2. Complete the assignment given below in your English notebooks.

Project Work Methodology

The project can be inter-disciplinary in theme. Students must choose any one technique:

- Interview-Based Research: Choose a topic, conduct interviews, and write an essay/report of up to 1000 words.
- Audio/Video Based Research: Listen to podcasts/interviews/radio or TV documentary and prepare an 800–1000 word report.

List of Topics/Themes

I) The Last Lesson – Freedom of Speech & Expression

- Linguistic chauvinism
- Importance of Language
- Globalisation of Language
- Franco-Prussian War
- Historical references of events where linguistic identity was threatened

II) Lost Spring – Life in a Slum

- Research and case study of a slum
- Life of the people in a slum
- Education, Health and Infrastructure
- Government Initiatives
- Role of youth in the upliftment of the weaker sections of the society
- Comparative Study of Slums
- Slums of yesterday turned to cities of today

III) Deep Water – Phobia

- Phobias and fears of people
- Psychological and emotional impact
- How to overcome
- Impact on one's life and society
- Case Study

IV) Rattrap – The Study of Crime and Criminals

- Circumstances that lead to crime
- Case Study
- Corrective Measures
- Impact of Criminal Behaviours on Society
- How to bring them into mainstream
- Attitude of society towards criminals

V) Indigo

- Condition of Farmers in Champaran – Then and Now
- Farm Bill Agitation
- Gandhi's Contribution
- Other Political Leaders who improved farmers' lives
- Farmer Protection Laws in India
- Future Prospects – Growth – Suggestions

VI) The Enemy – War and Peace

- To maintain peace, we need to go to war
- Impact of War on Society
- Predicament of War
- Escapism and Depression due to war
- Stance of the Political Lobby and Civilians

VII) Should Wizard Hit Mommy – Insight to Parenthood

- Evolving Parenthood
- Problems faced by parents
- Teaching moral values
- Generation Gap
- Identity Crisis
- Role of Joint and Nuclear Families
- Dilemmas of a parent

VIII) On the Face of It – Disability

- Coping with disability
- Society's attitude towards disability
- Struggles of a disabled person
- Laws for the disabled
- Government policies for the betterment of the disabled
- Need of inclusion of disabled in mainstream society

IX) Topics Beyond Books

- The Population Control Bill is the Right Step Forward.
- Unrestrained Freedom of Speech and Expression is the Pillar of Progressive Society.
- Fulfilment of new woman in India is a Myth.
- Where Humanity Fails, Pandemic Occurs.
- Peace is Both a Right and Duty.
- Designer Babies – a Boon or Bane?
- Should Healthcare and Medicine be Provided Free by the Government?
- Childhood Vaccinations should be Compulsory.
- Populism is a threat to Democracy.
- Juveniles should be tried and tested as adults.
- Objectification of women in society.
- OTT platform vs. Conventional Cinema.
- NEP 2020.

Project Layout

Sheet 1 – Cover Page: title, school details, student details

Sheet 2 – Statement of Purpose / Objective / Goal

Sheet 3 – Certificate of Completion under teacher's guidance

Sheet 4 – Action Plan: 3–4 lines about the project, research tools & methodology, AV aids/PPT

Sheet 5 – Introduction of the Project

Sheet 6 – Supporting Material: Questionnaire, Case Study, Assignments, Survey Report, Transcripts, Articles, Interview

Sheet 7 – Report: 800–1000 word essay/script/report

Sheet 8 – Student/Group Reflection: 100–150 word paragraph about experience and learning outcomes

Sheet 9 – Photographs

Sheet 10 – List of Resources / Bibliography

Q2. Complete the following assignment in your class notebook:

Assignment Link :

<https://1drv.ms/w/c/foe01acc2ec5b545/IQAFy6T2wDyGT7bM2k2AkZ1zAS7KEuk-OOWj-WHXt2lbUUM?e=JBl3bN>

HISTORY

1. Project Work

General Instructions for Students

- The project must be handwritten and prepared neatly in the student's own handwriting.
- Content should be based mainly on NCERT textbooks and authentic reference sources.
- The project must be original work. Copy-paste material from the internet should be avoided.

Materials to use:

- A4 size ruled/interleaf sheets
- Blue or black pen for writing
- Coloured pens for headings and subheadings only

The file should be:

- Properly tagged/threaded
- Covered with a neat decorative cover/file
- Well-maintained and properly arranged

Cover Page should include:

- School Name
- Session (2026–27)
- Subject: History
- Project Title
- Student Name
- Class & Section
- Roll Number

Project File must include:

- Cover Page
- Certificate
- Acknowledgement
- Index
- Introduction
- Main Content
- Conclusion
- Bibliography

Students should use proper:

- Headings and subheadings
- Maps
- Timelines
- Flowcharts
- Diagrams
- Historical facts and dates

Pictures must be incorporated properly in the project file.

Relevant pictures, maps, paintings, monuments, newspaper cuttings, or historical illustrations should be pasted neatly.

Pictures should preferably be pasted on the left-hand side of the page, while written content is on the right-hand side.

Every picture must contain a proper caption/title below it.

Avoid overcrowding pages with unnecessary decoration or excessive pictures.

Sources of information and pictures should be mentioned in the bibliography.

Total Pages Required

Total: Approximately 20–24 pages (including all sections)

Main written content: Approximately 13–14 pages

Sections: Cover Page | Certificate | Acknowledgement | Index | Introduction | Main Content | Pictures/Maps/Illustrations | Conclusion | Bibliography

Choose Any One Topic:

Ancient India:

- The Indus Valley Civilization – Archaeology and New Discoveries
- The Mauryan Empire and Ashoka's Dhamma
- Buddhism and Jainism in Ancient India

Medieval India:

- Akbar's Religious Policy
- Vijayanagara Empire – Administration and Society
- Life in Medieval Indian Villages

Modern India:

- Mahatma Gandhi and National Movement
- Role of Women in India's Freedom Struggle
- Civil Disobedience Movement
- Quit India Movement
- Nationalism in India

2. Art Integrated Project

Roll Numbers 1 to 5 and after 32:

✓ Harappan Seals using clay (5 cm × 5 cm size) – Each student is supposed to make 4 seals.

Use clay, M-seal, dough, cardboard, or terracotta clay. Designs may include: Unicorn seal, Bull seal, Elephant seal, Pashupati seal, or ancient Harappan symbols.

- Seal should be square-shaped, 5 cm × 5 cm.
- Brown/terracotta shades may be used for an ancient effect.

☑ Mini clay pottery models – Roll Nos. 5 to 12

✓ Bead jewellery patterns – Roll Nos. 13 to 18

✓ Harappan house miniature sketches – Roll Nos. 19 to 25 (to be made on A3 sheets)

✓ 3D drainage system diagrams – Roll Nos. 26 to 32 (to be done on A2 sheets)

Assignment Link:

https://drive.google.com/file/d/1X--BGrO7Er3_6H2nG5sNtRrN1_95QJBP/view?usp=drivesdk

MATHEMATICS

- Do the five lab manual activities in the activity file. (PDF of lab manual will be shared in the class group.)
- Do the given assignment in the Mathematics notebook.

Assignment Link:

https://drive.google.com/file/d/1bKh4HC_QOBytgftmlXpOj-YgyYOWG8QH/view?usp=drivesdk

APPLIED MATHEMATICS

Part A: Project Work

Do one project in your project file. (List of projects given below.)

- (i) Analysis of a family's monthly expenditure on activities like travelling, movies, recharging of mobiles, etc. and draw interesting conclusions.
- (ii) Check out the local newspaper and cut out examples of information depicted by graphs. Draw your own conclusions.
- (iii) Analysis of population migration data – urbanisation – positive and negative influence.
- (iv) Collect maximum temperature, minimum temperature, and humidity data for 30 days and represent it graphically. Compare with the previous year.
- (v) Analysis of career graph of a cricketer (batting/bowling average). Conclude the best year of his career.
- (vi) Vehicle registration data – correlating with pollution and the number of accidents.
- (vii) Visit a village near Delhi and collect data of various crops over the past few years. Find the effect of temperature and rain variations on crops.
- (viii) Collect data for past 10–15 years of rainfall in Delhi during a chosen week. Predict the rainfall for the current year.
- (ix) Weather prediction (prediction of monsoon from past data).
- (x) Visit Kirana shops near your home and collect sales data. Figure out the stock of a commodity to maximise profit.
- (xi) Stock price movement.
- (xii) Risk assessments by insurance firms from data.
- (xiii) Predicting stock market crash.
- (xiv) Predicting the outcome of an election – exit polls.
- (xv) Predicting mortality of infants.

Part B: Assignment

Assignment Link:

<https://drive.google.com/file/d/1mVhCo4zElbzMplqMGHKewPC6qAUdDdwI/view?usp=drivesdk>

PHYSICAL EDUCATION

1. Physical Fitness Test: SAI Khelo India Test, Brockport Physical Fitness Test (BPFT)
2. Proficiency in Games and Sports – Skill of any one IOA recognised Sport/Game of Choice
3. Yogic Practices
4. Record File

Record File shall include:

- Practical-1: Fitness tests administration. (SAI Khelo India Test)
- Practical-2: Procedure for Asanas, Benefits & Contraindication for any two Asanas for each lifestyle disease.
- Practical-3: Any one IOA recognised Sport/Game of choice. Labelled diagram of Field & Equipment.

Assignment Link:

<https://drive.google.com/file/d/1bjQQoMPYRnp8i3cuOHgKi2uiMQnST9Bz/view?usp=drivesdk>

PHYSICS

(1) Prepare a project report as per the guidelines below.

Project Report Elements

- ▶ Synopsis – Summary of your idea: purpose, procedure, data, and conclusion.
- ▶ Research Paper – Organized document of your research work.
- ▶ Title Page – Centre the project title, name, address, and school.
- ▶ Aim/Objective – Hypothesis, explanation of research, and expected results.
- ▶ Scientific Principle Involved – Describe the principle involved.
- ▶ Material Used – List all items used.
- ▶ Method – Detailed methodology for data collection/observations.
- ▶ Discussion – Results, conclusions, comparison with theoretical values, possible errors.
- ▶ Conclusion – Specific findings. Do not generalise.
- ▶ Further Scope of Project – Future scope of the experiment.
- ▶ Acknowledgement – Credit to those who assisted.
- ▶ Reference List – Books, journal articles, and specific internet URLs.

Suggested Investigatory Projects

1. To study various factors on which the internal resistance/EMF of a cell depends.
2. To study the variations in current flowing in a circuit containing an LDR due to variation in (a) power of the incandescent lamp and (b) distance of the lamp.
3. To find the refractive indices of (a) water and (b) oil using a plane mirror and an equiconvex lens.
4. To investigate the relation between output/input voltage ratio and number of turns in a self-designed transformer.
5. To investigate the dependence of the angle of deviation on the angle of incidence using a hollow prism filled with different transparent fluids.
6. To estimate the charge induced on two identical Styrofoam balls suspended in a vertical plane using Coulomb's law.
7. To study the factor on which the self-inductance of a coil depends when put in series with a resistor in an A.C. circuit.
8. To study the earth's magnetic field using a compass needle–bar magnet by plotting magnetic field lines and tangent galvanometer.

Assignment Link ;

<https://drive.google.com/file/d/1zvrUhTs-ZK5gT2t27ocOU9LetxByZOZp/view?usp=drivesdk>

POLITICAL SCIENCE

A) Complete Holiday Homework worksheet based on competency of Ch-1 and Ch-2 separately on A4 size sheets. (Worksheet attached at the end of page.)

B) Political Science Project – Prepare a project according to CBSE guidelines.

Suggested Project Topics

1. Nation Building
2. Globalisation
3. New Centres of Power
4. India's Relations with USA or USSR
5. United Nations
6. Regional Aspirations
7. Contemporary South Asia
8. Emergency 1975
9. Recent Development in Indian Politics

Project Instructions

- Project must be handwritten. Print outs will not be accepted.
- Project to be done individually.
- Page Limit: 25–30 pages.
- Pictures must be incorporated (on the left-hand side).
- Assessment will be based on creativity, presentation, and research work.

C) Prepare a poster on 'Emergency – Black Day for Indian Democracy'.

Assignment Link:

<https://docs.google.com/document/d/1jHPikZGPFxEZ2byufxT2nEjAYri44asA/edit?usp=drivesdk&oid=102945117652673197895&rtpof=true&sd=true>