



ARWACHIN BHARTI BHAWAN SR.SEC SCHOOL C,
BLOCK VIVEK VIHAR DELHI 110095

HOLIDAY HOMEWORK

CLASS XII

ENGLISH

1. Read the newspaper daily.
2. Prepare a poster on any freedom fighter along with her/his famous quote, on A3 sized sheet.
3. Paste any 5 unseen passages (3 case based and 2 discursive) in your main register and solve it
4. Prepare an ALS project file as per discussion in the classroom.
5. Revise the syllabus done so far.

HINDI

ग्रीष्मावकाश कार्य

कक्षा- XII

हिन्दी

- निम्नलिखित शीर्षकों पर रचनात्मक आलेख लिखिए-
 1. अंतर अनेक, हम एक
 2. निःशुल्क शिक्षा
 3. आर्थिक विकास की कीमत प्राकृतिक आपदाएँ
 4. लोकतंत्र एवं अभिव्यक्ति की स्वतंत्रता
- कक्षा में बताए गए विषयों के आधार पर प्रैक्टिकल फाइल रचनात्मकता के साथ पूरी कीजिए।
- "समाज में व्याप्त आर्थिक असमानता का निवारण कैसे किया जाए" विषय पर संपादकीय तैयार कीजिए। सॉफ्ट कॉपी अवकाश के बाद जमा कीजिए।
- १०-१० अपठित गद्यांशों व पद्यांशों का अभ्यास नोटबुक में कीजिए।
- अनुक्रमांक अनुसार निर्धारित विषय पर PPT बनाएँ।
 1. भारतेंदुयुगीन रचनाकारों का साहित्यिक योगदान (अनुक्रमांक 01-08)
 2. छायावादयुगीन रचनाकारों का साहित्यिक योगदान (अनुक्रमांक 09-16)
 3. प्रगतिवादी रचनाकारों का साहित्यिक योगदान (अनुक्रमांक 17-24)
 4. प्रयोगवादी रचनाकारों का साहित्यिक योगदान (अनुक्रमांक 24-32)
- कक्षा में पढ़ाए गए पाठ परीक्षा के दृष्टिकोण से तैयार कीजिए।

MATHS

1. REVISE CHAPTER NUMBER 1 TO 5
2. FRAME AND SOLVE 02 CASE STUDIES FROM EACH CHAPTER FROM REAL LIFE CASES – PREPARE SAME ON A4 SIZE SHEETS ONLY AND FILE THEM PROPERLY
3. COMPLETE MATHS ACTIVITIES FILE AND SUBMIT THE SAME BY 06-07-26
4. ATTEMPT / PARTICIPATE IN MATHS QUIZ – TO BE SHARED (ONLINE)
5. COMPLETE ASSIGNMENTS / WORKSHEETS
6. CREATE A CREATIVE FORMULA DICTIONARY THAT INCLUDES MIND MAP/ FLOW CHART OF ALL FORMULAS AND CONCEPTS FROM CHAPTER 1 TO 5 FROM CLASS XII, ALONG WITH NECESSARY FORMULAS LIKE TRIGNOMETRY, COORDINATE GEOMETRY, LIMITS, DERIVATIVES, CONIC SECTIONS ETC. FROM CLASS XI.

Physics

1. Complete Activity and Experiment file work.
2. Make an investigatory project on any Physics topic.
3. Prepare chapters 9, 11, 12 and 13.

CHEMISTRY

- Revise all the chapters of organic chemistry and attempt assignments from previous year papers.
- READ chapter ‘Biomolecules ‘ from Part 2 organic Chemistry.
- Complete your practical file and submit it after summer break.
- Prepare an investigatory project on the given topic and submit it after summer break.

BIOLOGY

1. Revise all chapters covered (unit 3 and 5 , Human reproduction)
2. Complete the biology notebook if remain incomplete.
3. Make diagrams of chapter : Human reproduction in class register.
4. Make investigatory project of any relevant topic.
5. Complete practical file work.

ACCOUNTANCY

- 1) Analyze the prices of stocks of 2 different companies (data collected for past 10 years). List all the types of stocks and securities available with them. Compare the two different companies and their growths. Present it in a form of report along with graphical representation.
- 2) Revise all chapters covered in class
- 3) Prepare 10 one mark questions (MCQs, one word, fill in the blanks or True / False) from first 5 chapters.
- 4) Complete the practice assignment given in the assignment registers
- 5) Collect different types of vouchers and paste them in the assignment registers

Note: All the work to be done on A4 size sheets

BUSSINESS STUDIES

Marks-20

Instructions for Students

- Prepare the project neatly in a file.
- Use coloured sheets, charts, newspaper cuttings, pictures, and creative headings.
- Handwritten work is compulsory.
- Attach relevant case studies, examples, and business news.
- Submit the project after summer vacation.
- Viva may be conducted based on the project.

Activity 1: Study of Business Environment

Collect newspaper articles related to recent changes in business environment such as government policies, inflation, digital marketing, startup culture, or GST.

Prepare a report including:

1. Meaning of business environment
2. Types of business environment
3. Impact of the selected news/article on business
4. Your opinion on how businesses adapt to change

Activity 2: Case Study on Fayol's Principles of Management

Choose any business organisation and identify how Fayol's principles are applied in real life.

Include:

1. Introduction of the organisation
2. Any 5 principles of management used
3. Practical examples
4. Importance of management in business success

Activity 3: My Business Plan

Imagine yourself as a young entrepreneur and create your own startup idea. Design the project creatively with logos, business cards, product drawings, and promotional ideas.

Include the following points:

Name of your startup

Logo and slogan

Nature of business

Products/services offered

Target customers

Estimated investment

Methods of promotion and advertising

Unique feature of your business

Expected future growth

Write why your startup idea is different from others.

Activity 4: Consumer Awareness Campaign

Prepare a consumer awareness project on consumer rights and responsibilities.

Include:

1. Meaning of consumer protection
2. Consumer rights
3. Consumer responsibilities
4. Ways to file a complaint
5. Slogans/posters for consumer awareness

Activity 5: Consumer Awareness Campaign

Revise and do questions of ch 1,2, and 3 from PYQs. This work is not for file writing but only for learning perspective.

Following essentials are required to be fulfilled for its preparation and submission.

1. The total length of the project will be of 25 to 30 pages.
2. The project should be handwritten.
3. The project report should be developed in the following sequence-
 - Cover page should include the title of the Project, student information, school List of contents.
 - Acknowledgements and preface (acknowledging the institution, the places visited and the persons who have helped).
 - Introduction.

- Topic with suitable heading..
- Observations and findings of the visit.
- Conclusions (summarized suggestions or findings, future scope of study).
- Photographs
- Appendix
- Signatures of the teachers.

ECONOMICS

1) Do Assignments based on the chapters covered under INDIAN ECONOMICS

→ Indian economy on the eve of independence

→ Indian economy 1850-1990

→ LPG

(Assignment will be shared through
class whatsapp group)

(Complete all Assignments in Assignment Register)

2) Complete all the revision test papers of chapters completed in the class in the assignment notebook.

3) Revise all the chapters covered and Read Chapter-1,2,3 of India economy from NCERT and SANDEEP GARG BOOK.

4) Complete Project work of economics as discussed in class based on the topics given by CBSE for BOARD PRACTICALS

- Introduction page
- Personal Detail
- Certification
- Acknowledgement
- Index
- Introduction of Topic
- Meaning and Definition
- Content

FOOD NUTRIENTS

Complete the file work as explained in class for practical 1,2,3

Complete the note book work for chapter 1,2,3,4,5

Also complete the notebook work of employability skills unit 1,2

Complete the given project to be presented in the science fest

Assignment will be shared on the portal

MARKETING

Part A : The following activities must be conducted on A4 size sheets as a part of your CBSE Board Project

PRODUCT

1. Create a detailed practical file highlighting the movement of few (8-10) products through different stages of product life cycle. Diagrammatic representation and creative inputs are welcome. Encourage the students to take products from Aviation industries, semi conductors Arms and ammunitions for self-reliant india, railway coaches, and IT sectors
2. Collect various 20 to 25 packages for fast moving consumer goods. Create a practical file demonstrating environmental friendly packaging and labeling strategies adopted by various firms keeping in mind sustainable development goals

PRICE

3. Create a project report on pricing policy adoption by different manufacturing and service firms

PLACE

4. Create a project by visiting different marketing organisations in your locality (retailers,wholesalers, distributor etc.). Take 5 products of your choice and find out which type of channel was involved before it reaches your hand. Also discuss functions of various intermediaries.

PROMOTION

5. Create a project on promotion mix practices followed by Indian firms

EMERGING TRENDS

6. Prepare a project report on emerging trends on marketing including social media platforms , use of web pages and websites

7.

POLITICAL SCIENCE

1. Prepare CBSE Project from topics & on the guidelines of CBSE as discussed in class.
2. Complete all assignments given in class in your register .
3. Learn all the chapters taught in class.
4. Attempt all the questions of Book 1 from cbse board question paper of (2025-2026) in Political science register.
5. Read newspaper daily and write 5 headlines on daily basis in register.

HISTORY

- Make your History project as per the instructions given in the class according to CBSE topics and guidelines.
- Revise the syllabus done so far.
- Complete the assignments of each chapter.
- Practice PYQs (Previous Year Questions) of the chapters taught in the class according to the CBSE board question paper pattern.
- Complete the map work and fill/mark all the given places carefully.

Physical education

PRACTICAL - 1 : FITNESS TESTS ADMINISTRATION FOR ALL ITEMS

SAI KHELO INDIA FITNESS TEST IN SCHOOL

1. BMI
2. 50 M SPEED TEST
3. 600 M RUN/WALK
4. SIT & REACH (FLEXIBILITY TEST)
5. PARTIAL CURL UP (STRENGTH TEST)
6. PUSH UPS (BOYS), MODIFIED PUSH UPS (GIRLS)

PRACTICAL - 2 : PROCEDURE FOR ASANAS, BENEFITS & CONTRAINDICATION OF ALL ASANAS FOR EACH LIFESTYLE DISEASE

- Asanas as preventive measures.

OBESITY:

Procedure, benefits & contraindications for:

1. Vajrasana
2. Hastasana
3. Trikonasana
4. Ardh Matsyendrasana

DIABETES:

Procedure, benefits & contraindications for:

1. Bhujangasana
2. Paschimottasana
3. Pavan Muktasana
4. Ardh Matsyendrasana

ASTHMA:

Procedure, benefits & contraindications for:

1. Sukhasana
2. Chakrasana
3. Gomukhasana
4. Parvatasana
5. Bhujangasana
6. Paschimottasana
7. Matsyasana

HYPERTENSION:

1. Tadasana
2. Vajrasana
3. Pavan Muktasana
4. Ardha Chakrasana
5. Bhujangasana
6. Shavasana

BACK PAIN:

1. Tadasana
2. Ardh Matsyendrasana
3. Vakrasana
4. Shalabhasana
5. Bhujangasana

PRACTICAL - 4 : ANY ONE GAME OF YOUR CHOICE OUT OF THE LIST BELOW

1. Basketball
2. Volleyball
3. Kho-Kho

4. Football
5. Cricket
6. Handball
7. Kabaddi

FOLLOWING POINTS SHOULD BE ADDED IN THE FILE OF SELECTED GAME

1. History of the game
2. Specification and measurement of the field
3. Major rules & fouls of the game
4. Fundamental skills
5. Terminology (10 with details)
6. Names of players (5 Indian & 5 International)
7. Name of tournament (5 Indian & 5 International)
8. Trophies associated with game

PRESENTATION MATTERS

Home Science

Q1. Complete the practical file work as per the instructions given in class.
(Submission date of the practical file - 3.7.26, Friday).

Q2. Make the project according to the selected topic and as per the instructions given in class.
(Submission date of the project - 10.7.26, Friday).

Q3. Revise all the chapters done in class till date by reading the textbook and notes and also practice extra questions from the textbook and previous year question papers.

Artificial Intelligence

Holiday Homework

Topics Covered:

- Python Revision
- NumPy Basics
- Matplotlib Basics
- Scikit-learn Introduction

General Instructions

- Complete all work in your AI notebook/practical file.
- Revise all topics taught in class.
- Complete all pending notebook work and practical work.
- Write programs with proper indentation and output.
- Maintain neatness and proper presentation.

PART A – THEORY QUESTIONS

1. What is NumPy?
2. Write any two advantages of NumPy.
3. What is Matplotlib used for?
4. What is the use of Scikit-learn in AI?
5. Differentiate between list and NumPy array.

PART B – PRACTICAL PROGRAMS

6. Write a Python program to create a NumPy array.
7. Write a program to perform addition of two NumPy arrays.
8. Write a Matplotlib program to draw a bar graph of student marks.
9. Write a program to plot a line graph using Matplotlib.
10. Write a simple Scikit-learn program to train data using Linear Regression.

LIST OF AI PROJECTS

1. Student Performance Predictor

The Student Performance Predictor is an AI-based project that predicts student marks using factors such as attendance, study hours, and internal assessment performance. By analyzing the collected data, the system can estimate the academic performance of students and help teachers identify weak areas for improvement. This project mainly uses machine learning techniques for prediction and analysis.

2. Attendance Management Analyzer

The Attendance Management Analyzer is designed to analyze attendance records of students and identify those with low attendance percentages. The system helps schools maintain proper attendance tracking and provides reports for teachers and administrators. It can also generate warnings for students who are below the required attendance criteria.

3. BMI Calculator with Health Suggestions

The BMI Calculator with Health Suggestions calculates the Body Mass Index (BMI) of a person using height and weight values. Based on the BMI result, the system provides health recommendations such as diet advice, exercise suggestions, and fitness guidance. This project promotes awareness about healthy living and fitness management.

4. AI Chatbot for School Helpdesk

The AI Chatbot for School Helpdesk is an intelligent chatbot that answers common school-related queries automatically. It can provide information about admission procedures, exam schedules, fees, holidays, and other school activities. The chatbot uses Artificial Intelligence concepts such as Natural Language Processing (NLP) to understand and respond to user questions.

5. Face Detection System

The Face Detection System is a computer vision project that detects human faces in real-time using a webcam or camera feed. It uses image processing and machine learning algorithms to identify faces accurately. This system can be applied in security systems, attendance monitoring, and surveillance applications.

6. Weather Prediction System

The Weather Prediction System predicts weather conditions such as temperature, rainfall, and humidity using historical weather datasets. By applying machine learning algorithms, the system can forecast future weather patterns and help users make informed decisions. This project demonstrates the use of data analysis in environmental studies.

7. Library Management System

The Library Management System is developed to manage library operations efficiently. It maintains records of books, issue entries, return dates, and student details. The system reduces manual work and helps librarians organize and track books easily. It also improves the overall efficiency of library management.

8. AI Diet Recommendation System

The AI Diet Recommendation System suggests personalized diet plans based on factors such as age, weight, height, and fitness goals. The system analyzes user data and recommends healthy meal plans for weight gain, weight loss, or maintaining fitness. It combines Artificial Intelligence concepts with health management techniques.

9. Employee Salary Prediction

The Employee Salary Prediction project predicts employee salaries using information such as work experience, skills, and educational qualifications. By applying machine learning models, the system estimates expected salary ranges for employees. This project is useful for recruitment analysis and career planning purposes.

10. Smart Traffic Light System

The Smart Traffic Light System controls traffic signals based on traffic density analysis. It uses sensors or image processing techniques to monitor the number of vehicles on roads and adjusts signal timing automatically. This helps reduce traffic congestion, saves time, and improves road management efficiency.

11. Disease Prediction System

The Disease Prediction System predicts possible diseases based on symptoms entered by the user. Using classification algorithms and medical datasets, the system analyzes symptoms and suggests potential health conditions. This project demonstrates the use of Artificial Intelligence in the healthcare sector.

12. Fake News Detection

The Fake News Detection system classifies news articles as fake or genuine using text analysis and machine learning techniques. It examines the content of news articles and identifies misleading or false information. This project helps in spreading awareness about misinformation and digital media reliability.

13. Handwritten Digit Recognition

The Handwritten Digit Recognition project recognizes handwritten digits using machine learning algorithms and image processing techniques. The system is trained on digit datasets and can accurately identify numbers written by users. This project is widely used in applications such as postal code recognition and banking systems.

14. Movie Recommendation System

The Movie Recommendation System recommends movies to users based on their interests, ratings, and viewing history. It uses recommendation algorithms to suggest movies similar to the user's preferences. This project improves user experience by providing personalized entertainment suggestions.

15. AI Voice Assistant

The AI Voice Assistant is an intelligent system that performs tasks using voice commands and speech recognition technology. It can answer questions, open applications, search information, and perform basic operations through voice interaction. This project demonstrates the practical implementation of Artificial Intelligence and voice processing systems.

PART C – ACTIVITY

11. Prepare a small chart showing:

- NumPy
- Matplotlib
- Scikit-learn

with:

- Purpose
- One real-life use

IMPORTANT NOTE

- Revise all topics taught in class.
- Complete all pending notebook work and class exercises.
- Practical file should be updated properly.
- Viva may be conducted after vacations based on submitted work.

This document contains a list of Artificial Intelligence project ideas for CBSE Class 12 students.

Important Note: Maximum 8 students are allowed in one group. Students may choose any one project according to their interest and skill level

COMPUTER SCIENCE

1. Revise till explained in the class.
2. **Practical Task:**
 - Create Mini Python Project in A4 size coloured sheets with output screen

Choose any one of the topic:

1. Library Management system

Features:

- Add book
- Display book
- Search book
- Remove book

Use Lists and Functions in Python to solve it

2. ATM simulation

- Check Balance
- Deposit Money
- Withdraw money
- exit

Use Functions, Loops and Exception handling

3. Dictionary Task: Create a glossary of 20 Python terms (e.g., variable, loop, function, list).

4. Working Model:

- Computer Networks with Visualized Cables

-Concept: Show how data transmission happens across a network.

• Model: Use coloured wires or string to represent network cables. Create a small "network" with multiple devices (represented by boxes or cups) connected by the wires. Show how information travels from one point to another through the network, illustrating concepts of data packets, routing, and network topology.