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

HOLIDAY HOME WORK
CLASS XI (MAY 2025)

ENGLISH

* 1.Letter to the Grandmother (Creative Writing):
* Write a heartfelt letter from the narrator to his grandmother after her death, expressing his feelings, memories, and regrets.
* 2. Memory Collage:
* Task: Create a visual collage of old family photographs (printed or drawn) and write a short memory or feeling associated with each.
* Focus: Memory, family bonds, passage of time.
* Bonus: Write a reflection on how these memories shape your identity today.
* 3. Moral Message Poster:
* Design a colorful poster titled:
* "Family Values: Honesty Never Goes Out of Style"
* Include quotes, images, and lessons from the story.
* Revise all the topics covered upto now.

हिंदी :

ग्रीष्मावकाश कार्य
कक्षा- XI

• निम्नलिखित शीर्षकों पर रचनात्मक आलेख लिखिए-
   1. महान लेखक: मुंशी प्रेमचंद
   2. जीवन में खेलों का महत्व
   3. "न्यू इंडिया" की संकल्पना: चुनौतियाँ एवं संभावनाएँ
   4. जैसा खाए अन्न, वैसा होए मन

• कक्षा में बताए गए विषयों के आधार पर प्रैक्टिकल फाइल रचनात्मकता के साथ पूरी कीजिए।
• "गरीबी हटाओ" विषय पर पोस्टर बनाइए।
• पत्रकार/ शिक्षक पद की नौकरी के लिए आवेदन पत्र व स्ववृत तैयार कीजिए।
• Extra mark App पर दिए गए परियोजना कार्यों व अभ्यास कार्यों को पूरा कीजिए।
• १०-१० अपठित गद्यांशों व पद्यांशों का अभ्यास नोटबुक में कीजिए।
• अपने प्रिय लेखक के साहित्यिक जीवन पर PPT बनाएँ।
• कक्षा में कराए गए पाठों की पुन: पाठ कीजिए।
• शरतचंद चट्टोपाध्याय की जीवनी "आवारा मसीहा" पढ़िए व समीक्षा लिखिए।

MATHS

* REVISE CHAPTER NUMBER 1 ,2

* UNDERSTAND THE CONCEPTS, PRACTICE EXAMPLES, QUESTIONS FROM NCERT & GIVEN ASSIGNMENTS ETC.

* PREPARE LIST / MIND MAP/ FLOW CHART OF FORMULAS AND CONCEPTS TO MASTER THE CONCEPTS – PREPARE SAME ON A4 SIZE SHEETS ONLY AND FILE THEM PROPERLY.
* FRAME AND SOLVE 02 CASE STUDIES FROM EACH CHAPTER FROM REAL LIFE CASES – PREPARE SAME ON A4 SIZE SHEETS ONLY AND FILE THEM PROPERLY.
* COMPLETE ALL ASSIGNMENTS GIVEN .
* COMPLETE MATHS ACTIVITIES FILE AND SUBMIT THE SAME BY 07-07-2025..
* ATTEMPT / PARTICIPATE IN MATHS QUIZ – TO BE SHARED (ONLINE).
* ATTEMPT ASSIGNMENT / WORKSHEETS ON EXTRA MARKS LEARNING APP ALSO.
* PREPARE A TEAM OF 05 STUDENTS AND MAKE A MODEL ON ANY TOPIC FROM CHAPTER 1 TO 5.

* Team1 -Roll no 1 to 5
* Team 2- Roll no 6-10
* Team 3 - Roll no 11-15
* Team 4 Roll no 16-20
* Team 5 Roll no 21 to 25
* Team 6 Roll no 26 to 30
* Team 7 Roll no 31 to 35
* Team 8 Roll no 36 to 40

PHYSICS
* Revise chapter 1(unit and measurement)
* Chapter 2 (Motion in straight line),And attempt assignments and worksheets on EXTRA MARKS LEARNING APP

CHEMISTRY
* Revise chapter 1 – Some Basic Concepts of Chemistry
    * Chapter 2 – Structure of Atom
    * and attempt assignments and worksheets on EXTRA MARKS LEARNING APP.
* READ chapter 'Classification of Elements an Periodicity in Properties.
* Do any one of the following project and add it in your portfolio
* Atomic Timeline Wheel: Make a wheel-shaped timeline showing the evolution of atomic models (Dalton → Thomson → Rutherford → Bohr).
* Mole Concept Comic Strip: Create a 1-page comic strip explaining the mole concept.
* Atomic Model with Waste Materials: Use waste or recyclable items (bottle caps, straws, wires, cardboard, etc.) to build an atomic model (Bohr's model of any element).

BIOLOGY
* Prepare an investigatory biology project involving art integration.
* Complete Biology practical File work in practical files(already marked during practical's)
* Revise chapters : Cell , Biomolecules and mitosis with meiosis

📑 **Theory Assignments:**
1. Answer the following questions on A4 size paper:

- **Which of the following is a valid identifier:**

  - o i. 9type

  - o ii. _type

  - o iii. Same-type

  - o iv. True

- **Which of the following is a relational operator:**

  - o i. >

  - o ii. //

  - o iii. or

  - o iv. **

- **Which of the following is a logical operator:**

  - o i. +

  - o ii. /=

  - o iii. and

  - o iv. In

- **Identify the membership operator from the following:**

  - o i. in

  - o ii. not in

  - o iii. both i& ii

  - o iv. Only i

- **Which one is an arithmetic operator:**

  - o i. not

  - o ii. and

  - o iii. or

  - o iv. **

2. Define the following terms:
- Token

- Keyword

- Flowchart

- Variable

- Pseudocode

- Identifier

- Literal

3. List the conventions to be followed while naming a variable in Python.
4. What is an operator? Discuss the different categories of operators used in Python and give examples of each.
5. Draw a flowchart to take 3 numbers from the user and print the greatest of the three numbers.
6. Draw a flowchart to print the sum of 10 numbers given by the user.

💻 **Python Programming Assignments**
**7. Write a Python program to take 2 numbers from the user and display the result of all the operators (+, -, *, /, //, %,).
**8. Write a Python program to take the basic salary of a person along with the name and generate the salary slip by calculating:

- Travel Allowance (TA) as 25%

- Dearness Allowance (DA) as 40%

- House Rent Allowance (HRA) as 40%

- Provident Fund (PF) as 20%
  Also, calculate the total salary as Basic + TA + DA + HRA - PF.**

9. Write a Python program to take the student's name and the marks of five subjects. Calculate the total and average marks secured by the student.

10. Write a program to find the area of a Circle, Triangle, and a Rectangle. Take the necessary inputs for the same.

11. Write a Python program to swap two numbers using a third variable and without using the third variable.

12. Write a program to take a string message and do the following:
- a. Print the first three characters of the string.

- b. Print the last five characters of the string.

- c. Print the number of spaces in it.

- d. Print the alternate characters of the string.

- e. Print the string in reverse.

13. Write a program to take three numbers from the user and print the largest and the smallest numbers of the three values.

14. Write a program to take Principal Amount and Time from the user and find the Simple Interest at 10% if the Time is less than 12 months, 15% for time less than 24 months, and 20% otherwise.

15. Write a program to take a number from the user and print the square of the number if it is even; otherwise, print its cube.

📑 Project Work

Project Guidelines:

- **Choose a topic** related to Computer Science, such as:

    o Case Study
    o Schools of Psychology
    o Psychologist at Work
    o Ethics in Psychological Research
    o Goals of Psychological Research

- **Length:** 3,500–4,000 words (excluding diagrams & graphs), preferably hand-written.
- **Presentation:** Submit the project in a file with printouts of each question on a separate page.

AI (ACTIVITY-BASED & PRACTICAL)

Theme: "Exploring AI: Think. Create. Apply."

1. AI in My Surroundings – Observation Diary

- Observe and list 10 real-life AI applications around you.
- For each, write:
  • Where it is used
  • What it does
  • What data it might use
  • How it helps users

2. Build a Simple Chatbot (Coding)

- Create a basic chatbot in Python (or using a no-code tool).
- It should:
  • Greet user
  • Ask name
  • Respond to 3–5 pre-set questions
- Submit code and screenshot of output.

3. Case Study – AI in a Sector

- Select one sector (Healthcare, Education, etc.).
- Prepare a 1–2 page case study including:
  • How AI is used
  • Benefits & challenges
  • Real examples or companies using AI

4. Create a PPT – "What is AI?"

- Make a 6–8 slide PowerPoint presentation on:
  • Introduction to AI
  • Types of AI
  • AI Applications
  • Pros & cons
  • Future of AI
- Use visuals, bullet points, and prepare for class presentation.

ACCOUNTANCY

1) Accounting Equation Analysis

- Objective: Apply the accounting equation to real-life scenarios.
- Instructions: Record hypothetical transactions for a chosen business over 15 days. For each transaction, analyze its effect on the accounting equation (Assets = Liabilities + Capital) and present the findings in a tabular format.

2: Real-Life Example/Interview
Task: Interview a small business owner (or use an online example) to understand how they record their income and expenses.

- Ask the business owner whether they follow the cash basis or accrual basis of accounting, and why they prefer that method.
- Prepare a 1–2 page summary of the interview.
  Focus on:
  - The business type (service or product-based)
  - The accounting method used
  - Challenges faced in applying either method

3. Activity Title: "Tech in Accounting – Exploring Tally and Beyond"

 Research & Comparative Study (Report)

Prepare a comparative report on **any two accounting software** from the following list:

- TallyPrime
- Busy Accounting
- Zoho Books
- QuickBooks
-
- Wave Accounting

📄 Your report should cover:

- Introduction of each software
- Key features
- Usability (Who uses it and why?)
- Pricing (free/paid model)
- Pros and cons

4. Revise all topics covered in the class.

NOTE- Do the above assigned task in A4 Size sheet.

) Revise all the syllabus done in the class.

2) Complete the assignments given in the class.

3) Do the assignments provided on the extramarks as well as on watsapp groups in the assignment notebook.

4) Create a comic strip illustrating economic principles such as supply , demand, scarcity or opportunity cost. You can choose topic according to your choice also.

5) Prepare a project file [25 pages] according to the roll numbers given below. The project should contain :-

1) Cover page

2) Acknowledgment

3) Certificate

4) Index

5) Introduction of topic

6) Content

7) Conclusion

8) Bibliography

Roll No	Topic
1-10	Demand and elasticity of demand
11-20	Supply and it's determinants
21-30	Price Determination
31-40	Consumer's Equilibrium
41-50	Production and costs.

MARKETING

1. The following activities to be done on A4 size sheets

a. Prepare a practical file by collecting print advertisements and analysing the message conveyed in marketing of goods, services people, ideas, experience, events, places, properties, organisations and information. Suggest an alternative mode of communication to the firm and create an advertisement for the same.

b. Visit in a group to different marketing organisations in your locality (distributors, wholesalers, retailers). Make a detailed project report to find the marketing activities of each of them respectively. Also identify different activities followed in selling and marketing

c. Students will make charts on young entrepreneurs in India after collecting information and pictures from several magazines and newspapers

2. Students will think of an innovative product and prepare their own business plan in a PowerPoint Presentation and present their ideas and plans in the classroom for an interactive discussion.

3. Revise the chapters completed in the class

1.Complete the assignments given in the class.
2. Revise all the topics covered in the class.
3. **Select any one cooperative society and analyze the following aspects**—
   a. Objective of formation
   .b.Nature and size of business.
   c. Number of members and their role.
   d. Evolution or history of society.
   e. Benefits of society to its members.
  f. Control and management of society.

4.Mind Map or Flow Chart Making:-

- **Task**:- Draw a large mind map showing:-
  o Types of industries
  o Real-life Indian examples
  o Products/services they produce
- **Hint** : - Use color coding and brand logos.

➢ **The above assigned project (Point 3 and 4) needs to be completed on A-4 size sheets and submitted in a file format.**

HISTORY
1. Revise the syllabus done so far.
2. Do the assignments of each chapter.
3. Do the NCERT questions in your notebooks.
4. Complete the extra questions in your notebooks.

(FOOD, NUTRITION AND DIETETICS)

● Poster making on any topic from the following :

1) Alternatives of white sugar
2) Disadvantages of processed food
3) Dental problems due to sugar
4) Harmful effects of soft drink

● Complete the given assignment for unit 1

● Make a food pyramid on A3 size sheet

● Draw a food plate (on A4 size sheet)

POLITICAL SCIENCE

1. Complete assessments of the chapters 1, 9 & 10 in your assignment register.
2. Learn & read all the chapters done in class.
3. Prepare a report on ' Operation Sindoor'. Highlighting it's advantages for the nation & relations of India with Pakistan.

Instructions:

Complete the following assignments in an eat and presentable manner. Use pictures, drawings,and creative layouts wherever applicable. Prepare a project file.

AssignmentTasks:

1. Introduction to Yoga:

- Define yoga and explain its origin.
- Mention the different types /forms of yoga (e.g. ,Hatha Yoga, Ashtanga Yoga, etc.).
- Write about the importance of yoga in modern life.

2. Benefits of Yoga:

- List at least 5 physical benefits.
- List at least 5 mental/ emotional benefits.
- Write how yoga can help ``studentsin their daily routine.

3. YogaAsanas(Postures):

- Choose any 5 yoga asanas.
- Foreach:

Write its name (in English and Sanskrit).

Mention the steps to perform it.

Add a picture or draw the asana.

Write its benefits and precautions.

4. DailyYogaRoutine:

- Prepare a weekly chart for a 30-minute daily yoga routine.
- Include warm-up, asanas, breathing exercises(Pranayama),and relaxation.