



DAV PUBLIC SCHOOL TTPP TANDA AMBEDKAR

Class- XI A

Session 2026-27

Summer Break Holiday Homework

Dear Parents,

“School stops for summer, learning never stops.”

Summer break holiday homework is a way to keep your child connected to learning during this long break. It is an excellent opportunity to encourage children to work on their own and develop self-discipline. The holiday homework designed would not only help your child achieve the above but also help them grow as responsible individuals.



There are a few suggestions that you may keep in mind

- 1. Holiday homework should be done under parental guidance but not by the parents.**
- 2. The homework should be done as per the instructions given.**
- 3. The last date of submission of the holiday homework is 5th July 2026. No homework will be accepted after the last date.**
- 4. The holiday homework will be graded and is a part of Internal Assessment of Term -I Exam.**
- 5. Converse with your child in English. Encourage your child to read books to enhance his/her language and comm. skills.**
- 6. Help to keep the house clean, clear the toys, books or craft after you have finished playing with it.**
- 7. Be polite while speaking and talk softly.**

*****Plant a seed in the pot, decorate the pot. Take care of that plant for the whole month, when you will come back to school bring that pot to your school. *****

CLASS XI – ENGLISH CORE (301)

OBJECTIVES

Develop reading, writing, speaking & listening skills.
Enhance creativity & critical thinking.
Promote experiential learning.
Improve communication skills.

SECTION A: READING SKILLS

Read ANY ONE book/novella (minimum 80–100 pages)
Maintain a Reading Diary with:
Title, Author
Summary (150–200 words)
New vocabulary (10 words with meanings)
Personal reflection (What did you learn?)

SECTION B: WRITING SKILLS

Write a Speech (120–150 words) on:

“Role of Youth in Nation Building” &

Design a Poster (50 words) on:

“Save Environment / Digital Awareness”

SECTION C: LITERATURE PROJECT

Prepare a Project File (Handwritten) on:

“The Portrait of a Lady”

Include: Character sketch of Grandmother, Theme & values (family, tradition, change)

5 important quotes, Personal response

Presentation Guidelines: A4 sheets, neat handwriting, Use pictures/drawings, Proper cover page & index

SECTION D: ART INTEGRATION

Draw/paint a scene OR create a collage with description.

SECTION E: ASL

Record a speech video and complete a listening task.

ASSESSMENT CRITERIA

Content & Creativity	5
Presentation	5
Language Accuracy	5
ASL	5
Total	20

IMPORTANT INSTRUCTIONS

Homework must be **self-done (no copying)**

Maintain **handwritten work (except ASL video)**

Submit on the **first working day after vacation**

कक्षा -11 विषय -हिंदी

1.परियोजना कार्य (Project Work): "साहित्यिक कोलाज"

~ कवि/लेखक परिचय: पाठ्यपुस्तक के किन्हीं दो पसंदीदा रचनाकारों (जैसे- कबीर, मीराबाई या मुंशी प्रेमचंद) का चित्र चिपकाकर उनके जीवन, रचनाओं और उनकी भाषा-शैली पर एक आकर्षक चार्ट या फाइल तैयार करें।

2. रचनात्मक लेखन (Creative Writing)

~ कहानी का आधुनिक रूपांतरण: मुंशी प्रेमचंद की कहानी 'नमक का दारोगा' को आज के संदर्भ में लिखें। यदि वंशीधर आज के समय में एक पुलिस ऑफिसर होते, तो भ्रष्टाचार के खिलाफ उनकी लड़ाई कैसी होती?

साक्षात्कार (Interview): कल्पना कीजिए कि आप 'अप्पू के साथ ढाई साल' के लेखक सत्यजित राय का इंटरव्यू ले रहे हैं। फिल्म निर्माण की समस्याओं पर आधारित 8-10 प्रश्नों की एक प्रश्नावली तैयार करें।

3. अभिव्यक्ति और माध्यम

~ फीचर लेखन (Feature Writing): "आधुनिक युग में हिंदी का महत्व" या "सोशल मीडिया: वरदान या अभिशाप" विषय पर एक प्रभावशाली फीचर (250 शब्द) लिखें।

4. व्याकरण और शब्दावली

~ शब्द-कोष निर्माण: 'आरोह' पुस्तक के (पाठ 1 से 4) कठिन शब्दों को चुनकर उनके अर्थ लिखें और उनसे नए वाक्य बनाएं (कम से कम 20 शब्द)।

~ पत्र लेखन: अपने क्षेत्र में जल-भराव या बिजली की समस्या को लेकर नगर निगम अधिकारी को एक औपचारिक पत्र लिखें।

5. डायरी लेखन (Personal Reflection)

~ पात्र की डायरी: कल्पना करें कि आप 'गलता लोहा' के मुख्य पात्र 'मोहन' हैं। शहर जाने के बाद अपनी पढ़ाई और वहां के संघर्षों के बारे में अपनी डायरी में तीन दिनों के अनुभव लिखें।

~ स्मृति चित्र: 'अप्पू के साथ ढाई साल' पाठ के आधार पर अपने बचपन की किसी ऐसी घटना को याद करते हुए लिखें जिसने आपके जीवन पर गहरा प्रभाव डाला हो।

CLASS XI MATHEMATICS

Activity 1: Number of Subsets

- Objective: To find the number of subsets of a given set and verify that if a set has elements, the total number of subsets is .
- Method: You will represent sets with 0, 1, 2, and 3 elements () and list their possible subsets (including the empty set) to observe the power of 2 pattern.
- Important Questions:
 1. If a set has 10 elements, how many total subsets will it have?
 2. What is the symbol used to represent an empty set, and is it considered a subset of every set?
 3. How does the number of subsets change when you add exactly one more element to a set?

Activity 2: Cartesian Product and Relations

- Objective: To verify that for two sets and , and the total number of relations from to is , where and .
- Method: Visually represent all possible correspondences (arrows) between elements of two given sets to determine the size of their Cartesian product and the resulting number of relations.
- Important Questions:
 1. If set has elements and set has elements, what is the formula for the total number of relations from to ?
 2. In a visual representation, what do the "arrows" signify in the context of a Cartesian product?
 3. How is the number of elements in related to the number of elements in set and set individually?

Activity 3: Set Operations via Venn Diagrams

- Objective: To represent set theoretic operations using Venn diagrams.
- Method: Using hardboard and colored pencils, you will draw a rectangle to represent the Universal set () and circles to represent subsets and , then shade regions to identify operations like union, intersection, and complements.
- Important Questions:
 1. What does the shaded portion represent if you color everything inside the Universal set *except* for circle ?
 2. Which region in a Venn diagram represents the operation (or)?
 3. What does it mean for two sets and if their intersection () results in an empty set () on the diagram?

Activity 4: Distributive Law Verification

- Objective: To verify the distributive law for three non-empty sets and : .
- Method: Construct five different Venn diagrams to represent each side of the equation and compare the final shaded portions to confirm they are identical.
- Important Questions:
 1. Based on this activity, can you similarly verify the other distributive law: ?
 2. How many distinct sets (represented by circles) are required to demonstrate the distributive property in this experiment?
 3. Explain the importance of the distributive property in simplifying complex set operations.

Activity 5: Identifying Relations and Functions

- Objective: To distinguish between a relation and a function using a model.
- Method: You will create an electrical circuit with two columns of bulbs representing the Domain and Codomain. By connecting bulbs in pairs, you will observe which sets of ordered pairs constitute a function and which do not.
- Important Questions:
 1. In your bulb model, which column of bulbs represents the Domain and which represents the Codomain?
 2. Provide an example of a set of ordered pairs from the activity that constitutes a relation but is not a function.

3. What specific condition must be met for a relation to be classified as a function in this experiment?

What is the distributive law for set operations?

How do I show the difference between relations and functions?

Can you explain the staircase pattern for natural numbers?

Class - XI Physics

Section A – Units & Measurements (Chapter 1)

1. Write the dimensional formula of energy.
2. Write the dimensional formula of pressure.
3. Check the correctness of the formula.
4. Convert 1 joule into erg.
5. A body's mass is measured as 2.40 kg, 2.45 kg, and 2.42 kg. Find the mean and absolute error.
6. The radius of a sphere is 7.0 cm with possible error of 0.1 cm. Find percentage error in volume.
7. How many significant figures are there in: (a) 0.00560, (b)?
8. The acceleration due to gravity is measured as. Find percentage error.
9. Express 1 pascal in terms of base SI units.
10. Verify dimensionally:

Section B – Vector Analysis (Chapter 2)

11. A car accelerates uniformly from rest to 20 m/s in 10 s. Find acceleration and distance travelled.
12. A body is dropped from 80 m height. Find time taken to reach the ground ().
13. A stone is thrown upward with velocity 20 m/s. Find maximum height ().
14. A particle covers half distance with 30 m/s and half with 60 m/s. Find average speed.
15. Two cars A and B move towards each other with velocities 20 m/s and 30 m/s. Find relative velocity.
16. Displacement of a particle is given by. Find velocity and acceleration.
17. If velocity is given by, find displacement after 5 s (initial position = 0).
18. A particle moves with acceleration. Find velocity after 3 s.
19. The velocity-time graph of a particle is a straight line between (0,0) and (10,20). Find acceleration and displacement in 10 s.
20. The displacement-time graph of a particle is. Find its velocity and acceleration at.

Class 11 Physical Education

The transition to Class 11 is the perfect time to shift from general play to understanding the science and organization behind physical activity. Here is a balanced summer assignment designed to cover the practical, theoretical, and health-related aspects of the curriculum.

1. The Practical Project (Main Portfolio)

Prepare a handwritten project file (15–20 pages). This will serve as a foundation for your board practicals later.

- **Topic: My Chosen Sport**
 - Choose **one** sport from the following: Basketball, Football, Cricket, Volleyball, or Badminton.
 - **History:** A brief origin story of the game.
 - **The Field:** Draw a labeled diagram of the court/field with official dimensions.
 - **Rules:** List 10 major rules and 5 common fouls/violations.
 - **Equipment:** Describe the gear required (e.g., ball weight, bat size, protective gear).
 - **Terminologies:** Define 5-10 terms specific to the sport (e.g., "Dribbling," "Offside," "Free Throw").

3. Yoga and Mental Well-being

Select **five Asanas** (Postures) aimed at improving concentration and flexibility. For each Asana:

- Write its name (Sanskrit and English).
- Explain the **Procedure** (Step-by-step).
- List 3 **Benefits**.
- List 2 **Contraindications** (Who should avoid doing it).

Suggested Asanas: Tadasana, Vrikshasana, Padahastana, Ardh-Chakrasana, and Bhujangasana.

4. Research Task: The Olympic Movement

Since the Olympics represent the pinnacle of sports, research and answer the following:

- Draw the **Olympic Symbol** (Five Rings) and explain what the colors represent.
- Write a short note on the **Ancient vs. Modern Olympic Games**.
- Identify three Indian athletes who have won Olympic medals and briefly describe their achievements.

Submission Guidelines:

- Use an A4 size practical file or a dedicated PE notebook.
- The work should be neat, handwritten, and supported by diagrams or pictures where necessary.
- **Deadline:** First Physical Education period after the school reopens.