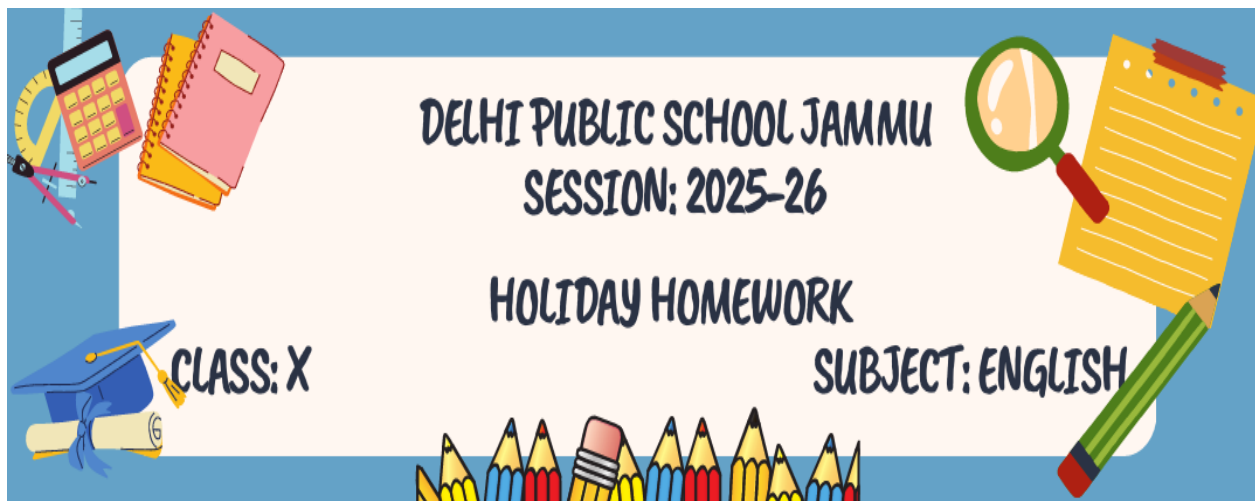




**DELHI PUBLIC SCHOOL JAMMU**  
**HOLIDAY HOMEWORK**  
**SESSION- 2025-26**  
**CLASS- X**



**"Vacation is not a break from learning, it's a chance to explore the world beyond textbooks."**



### **Task 1: Compare & Connect: Nelson Mandela & Anne Frank**

- ❖ Read the autobiographical extracts from “**Nelson Mandela: Long Walk to Freedom**” and “**From the Diary of Anne Frank**” carefully.
- ❖ Now, think deeply about the **life experiences, thoughts, and emotions** of both Nelson Mandela and Anne Frank.


#### **Your Task:**

Create a **Venn diagram** comparing **Nelson Mandela** and **Anne Frank** on the following four points:

1. **Struggles for freedom** – What kind of freedom did each of them seek?
2. **Impact of family** – How did their family lives affect them or shape their thinking?
3. **Use of writing** – How and why did each of them use writing?
4. **Personal growth** – How did they grow as individuals through their experiences?

#### **How to Do It:**

- Draw **two overlapping circles** on a chart paper or A4 sheet.
- Label one circle “**Nelson Mandela**” and the other “**Anne Frank.**”
- In the **overlapping area**, write the points that are **common to both**.
- In the **non-overlapping parts**, write what is **unique** to each.
- You may use **bullet points, symbols, or short phrases**.
- Add a **small sketch, quote, or keyword** under each section to make it visually creative and personal.

 **Reflection Activity:** End your work with a **2–3 line reflection** on what **you personally learned** about freedom, courage, or writing from these two powerful voices.

### **Task 2: Design a Poster on “Save Wildlife”**

- ❖ Based on the poem *A Tiger in the Zoo*, design a **thought-provoking and visually appealing poster** that spreads awareness about the need to protect wildlife.

#### **What You Need to Do:**

- Create a **poster on an A4 size sheet** on the theme “**Save Wildlife**”.

- Your poster should include the following:
  1. **A powerful quote or line** from the poem *A Tiger in the Zoo*
  2. **Catchy slogans** related to wildlife protection (e.g., “Roar for the Wild”, “Let Them Live Free”)
  3. **At least two real facts** about endangered species or threats to wildlife
  4. **A creative image or drawing** that connects to the theme—this could show a tiger in a cage vs. in the wild, or a forest scene.

### **How to Do It:**

- Use **colours, drawings, or cut-out visuals** to enhance your presentation.
- Make your message **clear, bold, and easy to understand** at a glance.
- Your artwork and content should reflect the **emotions of the poem** and emphasize the importance of **freedom for wild animals**.

### **Things to Think About:**

- What does the tiger’s condition in the poem tell us about captivity?
- How does nature give wild animals dignity and purpose?
- What message do you want your viewers to take away?

### **Important Guidelines:**

- Poster must be made on **A4 size sheet only**.
- Write your **name, class, and section** on the back of the sheet.
- Be neat, original, and expressive in your design.
- Submit it in a **clean and presentable format**.

### ❖ **RUBRICS FOR ASSESSMENT:**

- **Content Accuracy & Understanding**
- **Creativity & Originality**
- **Use of quotes, symbols, drawings, slogans, and visual imagination.**
- **Message & Thematic Relevance**
- **Organisation & Structure**
- **Well-structured Venn diagram and visually balanced poster layout.**
- **Language & Expression**
- **Clear, expressive, and thoughtful use of language and writing.**
- **Neatness & Presentation**

### **NOTE:**

- ❖ Both tasks are to be completed **neatly and creatively** on A4 size sheets and submitted **on the first day after vacations**.
- ❖ These will be part of your **English Portfolio** and carry internal assessment marks.
- ❖ Make sure your work is **original, well-presented, and reflects your understanding**.

### 1. बहु कौशल मूल्यांकन(MSA) विज्ञापन लेखन (Democracy Awareness Ad)

प्रश्न:"मतदान ज़रूरी है" विषय पर एक रेडियो/टीवी विज्ञापन स्क्रिप्ट तैयार कीजिए, जिसमें रचनात्मक संवाद और आकर्षक नारा हो।

#### पोर्टफोलियो

प्रश्न."भारत एक लोकतांत्रिक देश है" विषय पर एक रंगीन पोस्टर बनाइए जिसमें लोकतंत्र की कोई तीन विशेषताएँ दर्शाई गई हों।

साथ ही, लोकतंत्र पर आधारित एक प्रेरणादायक कविता भी लिखिए।

#### विषय संवर्धन गतिविधि

प्रश्न "अगर आप एक दिन के लिए प्रधानमंत्री बन जाएँ, तो लोकतंत्र को और सशक्त बनाने के लिए क्या-क्या निर्णय लेंगे?" किन्हीं 5 बिंदुओं का वर्णन कीजिए।

## 2. रचनात्मक लेखन:

### I) अनुच्छेद लेखन: (लगभग 100-120 शब्द)

- (i) "बच्चों की शिक्षा में माता-पिता की भूमिका"
- (ii) " आतंकवाद: समाज के लिए अभिशाप"
- (iii) "पर्यावरण की रक्षा क्यों आवश्यक है?"

#### मूल्यांकन मानक (RUBRICS) :

- |                |                         |
|----------------|-------------------------|
| * विषय की समझ  | * संरचना और संगठन       |
| * भाषा और शैली | * वाक्य रचना और व्याकरण |

### II) पत्र लेखन:

- (i) बस में यात्रा करते हुए आपका एक बैग छूट गया था जिसमें ज़रूरी कागज और रुपये थे। उसे बस कंडक्टर ने आपके घर आकर लौटा दिया। उसकी प्रशंसा करते हुए परिवहन निगम के अध्यक्ष को पत्र लिखिए।
- (ii) विद्यालय में योग-शिक्षा का महत्त्व बताते हुए किसी समाचार-पत्र के सम्पादक को पत्र लिखिए।
- (iii) आपके नाम से प्रेषित एक हजार रु. के मनीआर्डर की प्राप्ति न होने का शिकायत पत्र अधीक्षक पोस्ट आफिस को लिखिए।

#### मूल्यांकन मानक(RUBRICS) :

- \* विषय और उद्देश्य
- \* भाषा और शैली
- \* संरचना और संगठन
- \* व्याकरण और वर्तनी

नोट -

❖ गृहकार्य **Practical sheets** में लिखकर एक फाइल तैयार कीजिए और उसके प्रथम पृष्ठ पर अपना नाम, विषय, कक्षा, शिक्षिका का नाम आदि जानकारी अवश्य लिखिए।

❖ पढ़ाए गए पाठ्यक्रम का अभ्यास कीजिए तथा पुस्तिका(Copy) पर भी पाठ्यपुस्तक के प्रश्न कीजिए।

ग्रीष्मावकाश गृहकार्य (मूल्यांकन के मानदंड)

- \* उत्कृष्ट (A+): विषय, भाषा, संरचना, और व्याकरण सभी पहलुओं में उत्कृष्टता है।
- \* अच्छा (A): अधिकांश पहलुओं में अच्छा प्रदर्शन है, लेकिन कुछ क्षेत्रों में सुधार की आवश्यकता है।
- \* संतोषजनक (B+): कुछ पहलुओं में संतोषजनक प्रदर्शन है, लेकिन कई क्षेत्रों में सुधार की आवश्यकता है।
- \* असंतोषजनक (B): अधिकांश पहलुओं में असंतोषजनक प्रदर्शन है और व्यापक सुधार की आवश्यकता है।

**DELHI PUBLIC SCHOOL, JAMMU**  
**SESSION-2025-2026**  
**HOLIDAY HOMEWORK**



**CLASS: X**  
**MATHEMATICS**

**SUBJECT:**

Note:

- i. Do any two activities of the following + all questions given below
- ii. Make a proper file with submission format given below.

**1. Real Numbers**

**Activity:** *Euclid's Division Lemma Treasure Hunt*

- **Objective:** Understand and apply Euclid's Division Lemma.
  - **Instructions:**
    - Design a treasure map with clues based on Euclid's Lemma.
    - Example: "If the total number of steps to treasure is divisible by both 45 and 60, what is the highest number of steps you can skip each time?"
    - Use the **HCF and LCM** concepts in your clues.
  - **Learning Outcome:** Real-life application of division algorithm and HCF/LCM.
- 

**2. Polynomials**

**Activity:** *Polynomial Puzzle Board*

- **Objective:** Factor and identify zeroes of polynomials.
- **Instructions:**
  - Create puzzle cards with polynomials on one side and their factorized form and zeroes on the other.



- Use colorful paper to make it engaging.
- Students can quiz each other or their family members.
- **Extension:** Use real-life contexts like area/volume represented by polynomials.
- **Learning Outcome:** Factoring and concept of zeroes.

### 3. Pair of Linear Equations in Two Variables

#### Activity: *Shopping Math Comic Strip*

- **Objective:** Solve linear equations in real-life contexts.
- **Instructions:**
  - Create a short comic strip showing two people shopping.
  - Prices and total amounts should lead to a pair of linear equations.
  - Solve them and show how the solution helps resolve the situation.
- **Example:** "Ravi bought 2 pens and 3 pencils for ₹30. Raj bought 3 pens and 2 pencils for ₹35."
- **Learning Outcome:** Real-life application of simultaneous equations.

### 4. Quadratic Equations

#### Activity: *Quadratic Parabola Art*

- **Objective:** Visualize and understand the shape of quadratic equations.
- **Instructions:**
  - Plot quadratic graphs (e.g.,  $y = x^2 - 2x - 3$ ) on graph paper.
  - Create patterns or designs using different parabolas (open up/down).
  - Explain how the roots relate to x-intercepts.
- **Extension:** Create a story or scenario (like height of a ball over time).
- **Learning Outcome:** Understanding shape, roots, and application.



### 5. Arithmetic Progression

#### Activity: *Daily Routine AP Chart*

- **Objective:** Identify AP in daily life.
- **Instructions:**
  - Track and record repetitive events from your daily routine (e.g., steps taken each hour, time spent on screen, etc.)
  - Find the first term, common difference, and nth term.
  - Represent it as a chart or table and decorate it.
- **Learning Outcome:** Recognizing AP patterns and applying formulas.

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### Submission Format:

Each activity should include:

- Title
  - Aim
  - Materials used
  - Procedure
  - Observations/Calculations
  - Conclusion/Learning
  - Photos or illustrations (if done practically)
- 

Students should be able to following questions:

#### ***Real Numbers:***

- Find the HCF and LCM of 252 and 198.
- Prove that  $\sqrt{2}$  is irrational.
- Find the LCM and HCF of 60 and 72 using the prime factorization method.
- If  $d = \text{HCF}(36, 60)$ , find  $x$  and  $y$  such that  $d = 36x + 60y$ .

#### ***Polynomials:***

- Find the zeroes of the quadratic polynomial  $x^2 - 7x + 12$ .
- Verify the relationship between the zeroes and the coefficients of the polynomial  $x^2 + 4x + 4$ .
- Divide  $2x^3 + 3x^2 - 5x + 6$  by  $x - 1$ .
- If  $\alpha$  and  $\beta$  are the zeroes of the polynomial  $2x^2 - 5x + 3$ , find (i)  $\alpha + \beta$  (ii)  $\alpha\beta$



#### ***Pair of Linear Equations in Two Variables:***

- Solve the system:  $2x + 3y = 12$ ,  $x - y = 1$  using substitution.



- Solve by elimination:  $3x - y = 5$  and  $2x + y = 4$ .
- Represent the equations  $x + 2y = 6$  and  $2x - y = 4$  graphically.
- A number consists of two digits whose sum is 9. If 27 is subtracted from the number, its digits are reversed. Find the number.

**Quadratic Equations:**

- Solve  $x^2 - 5x + 6 = 0$  by factorization.
- Solve using the quadratic formula:  $2x^2 + 3x - 2 = 0$ .
- Find the discriminant of  $3x^2 - x + 4$  and comment on the nature of roots.
- The product of two consecutive positive integers is 306. Find the integers.

In addition solve all NCERT Exemplar questions from RD Sharma.

**RUBRICS**

S. No.	Topic	Score	Skill
1	2 Activities (5 marks each)	$5 \times 2 = 10$ mark	Creativity
2	Real Number	2.5 marks	Understanding
3.	Polynomials	2.5 marks	Understanding
4.	Linear equations	2.5 marks	Application
5.	Quadratic equations	2.5 marks	Application

DELHI PUBLIC SCHOOL, JAMMU  
SESSION-2025-26  
HOLIDAYS HOMEWORK

**CLASS-X**

**SUBJECT-SCIENCE**



### **Chemical Art Project: Periodic Table Art**

- **Objective:** Learn the periodic table creatively.
- **Tasks:**
  - Design a periodic table using recycled materials (e.g., bottle caps, cardboard pieces).
  - Assign different colors to metals, non-metals, and metalloids.
  - Highlight at least 5 elements and write their uses and interesting facts.

#### **RUBRICS**

Creativity & Use of Recycled Materials	5marks
Innovative use of diverse recycled materials;	3marks
Accuracy of Periodic Table Layout	5marka
Color Coding (Metals, Non-Metals, Metalloids)	3marks
Highlighted Elements (Facts & Uses)	2marks
Effort and Neatness	2marks

**BIOLOGY**

## **Title: Herbarium Project – Exploring Plant Diversity**



### **Objective:**

To identify, collect, preserve, and document a variety of local plants and understand their scientific importance.

### **Instructions:**

1. Collect 10–15 different plant specimens (leaves/flowers) from your local area.
2. Press and dry each specimen using newspaper and place them under a heavy book for a week.
3. Mount the dried specimens on A4 or chart paper.
4. Label each specimen with the following details:

Common Name

Botanical/Scientific Name

Family

Habitat (e.g., forest, roadside, garden)

Medicinal or Economic Use

Date and Place of Collection

5. Arrange all sheets in a folder or scrapbook neatly.

### **Optional Creative Add-ons:**

Make a cover page with the project title and your **Name, Class/Sec & Roll no.**

Include a map marking where you collected the specimens.

**Add a reflection page: “What I learned from this project”.**

### **RUBRICS**

<b>Specimen Collection (Quantity &amp; Diversity)</b>	<b>5marks</b>
<b>Scientific Documentation</b>	<b>5marks</b>
<b>Presentation &amp; Neatness</b>	<b>5marks</b>
<b>Cover page, map, and reflection</b>	<b>3marks</b>
<b>Reflection Page</b>	<b>2marks</b>

## **INSPIRE AWARDS**

Observe your surroundings (home, school, village, city) and identify a real-life problem that people face. Think of an Innovative Solution. Come up with a new idea or a simple innovation that could solve the problem.

Make sure the idea is original, useful, and practical. Prepare a Write-up (100–150 words) of the problem and your proposed solution or innovation on assignment sheets and submit in a file.

Tips for Students:

Be original. Do not copy from internet/books.

Take inspiration from daily life – water saving, pollution, farming, transport, energy etc.

Selection of ideas should be based on novelty, social applicability, environment friendliness, user-friendliness and should have comparative advantage over existing similar technologies.

**Note:** Please note that best five entries will be entitled to get enrolled from school for INSPIRE (Innovation in Science Pursuit for Inspired Research) Award scheme which is one of the flagship programmes of Department of Science & Technology (DST), Government of India.

**DELHI PUBLIC SCHOOL JAMMU**  
**SESSION: 2025-26**  
**HOLIDAYS' HOMEWORK**

**Class Xth**

**Sub: Social Science (Economics)**

**Topic: Consumer Rights**

**Task:** Formulate a project report on the theme “My Role as a Responsible Consumer in Today’s Market”.

**Structure:**

- Introduction to Consumer Rights.
- Six consumer rights with illustrations (poster, cartoon, newspaper clipping).
- Make a T chart, write a ‘responsibilities as a consumer’ on one side and ‘role as a consumer on the other’.
- Laws protecting consumers COPRA 2019, FSSAI, Legal Metrology Act, BIS Act. (Explain any one briefly)
- Role of organisations. Name 2-3 NGOs working for consumer rights.

**Rubrics for Assessment:**

• Content Accuracy and Relevance	3
• Visual Representation	2
• Explanation of any Law	2
• NGOs	2
• Neatness and Creativity	1
Total	10

**Submission Format:** Handwritten on A4 sheets, Use diagrams, flowcharts, and relevant newspaper cuttings, Include cover page with Name, Roll No., Class, School, Topic, Compile neatly in a file.

**Teacher's Note:** The following work is to be completed during the summer vacation. It is an important part of internal assessment and must be submitted on the due date after vacation.

**DELHI PUBLIC SCHOOL JAMMU**  
**SESSION: 2025-26**  
**HOLIDAYS' HOMEWORK**

**Class Xth**  
**Sub: Artificial Intelligence**

## Python Programs

1. Write a Program to calculate Addition of two numbers
2. Write a Program to calculate Subtraction of two numbers
3. Write a Program to calculate Multiplication of two numbers
4. Write a Program to calculate Division of two numbers
5. Write a Program to calculate Modulus of a number
6. Write a Program to calculate Exponent of a number
7. Write a program to calculate area of a triangle
8. Write a program to combine two strings
9. Write a program to calculate Simple Interest
10. Write a program to calculate radius of a circle
11. Write a Program to calculate area of rectangle
12. Write a program to print a message Hello World in Python
13. Write a program to display name, age and salary
14. Write a program to find the average of three numbers
15. Write a program to display your height and weight.

Note: Write all the above programs in the Practical File