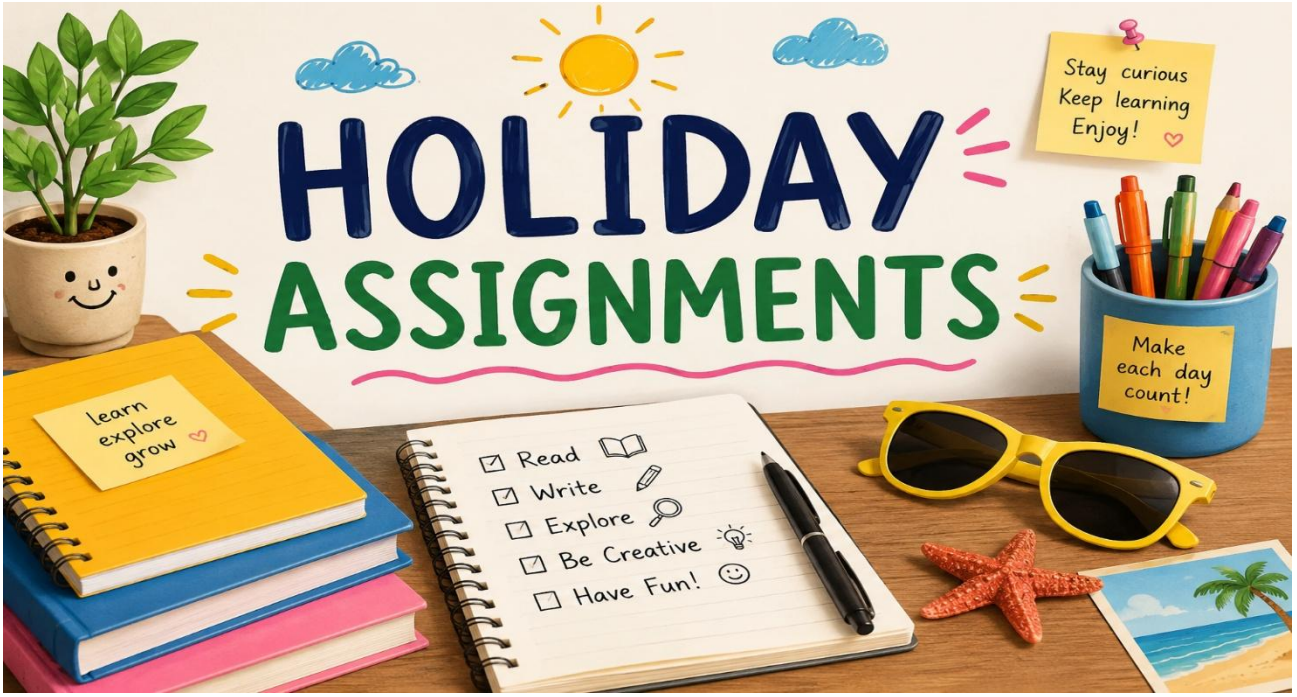
CAMBRIDGE SCHOOL
Indirapuram



SESSION: 2026-27

CLASSES: X

Instructions for the Holiday Assignments:

- All holiday assignments should be done in subject notebooks / A4 sheets / Project files.
- These should be done in a neat and presentable manner.
- Original work of students will receive greater recognition and appreciation.
- Note: Holiday assignments will be graded in Internal Assessment (Subject Enrichment). Hence, submission of work is compulsory for the students.
- Read and revise all the subjects covered till date.

CAMBRIDGE SCHOOL, INDIRAPURAM
HOLIDAY ASSIGNMENT
SESSION: 2026-27
CLASS- X

ENGLISH

Footprints Without Feet

1. Mind Maps

Objective:

To develop a better understanding of the chapters by identifying important characters, events, themes, and ideas through visual learning and creative presentation.

Chapters:

a) The Thief's Story
b) The Midnight Visitor
c) Footprints Without Feet

Instructions:

- Prepare one mind map for each chapter on separate A4 Sheets.

Include: Main Characters, Important Events, Themes/Message, New Vocabulary, Favourite Scene or Quote

- Use colours, symbols, drawings, and creative designs to make the mind maps attractive.
- Keep the content brief, organised, and easy to read.

2. Comic Strip Activity – Reported Speech

Objective:

To practise and apply the rules of reported speech by converting dialogues from comic strips into indirect speech in an interesting and practical way.

Instructions:

- Collect any three comic strips from a newspaper, English magazine, or the Internet.
- Paste one comic strip on each A4-sized sheet.
- Rewrite the dialogues in indirect (reported) speech below the comic strip.

Ensure correct changes in – Tense, Pronouns, Time expressions and Punctuation
Each comic strip must include: At least 2 statement sentences, 1 question sentence,
1 command/request sentence

- Decorate the sheets creatively and submit them in a folder/file.

HINDI

शीर्षक लिखें:*"अरुणाचल प्रदेश – उगते सूरज की भूमि"* |सुंदर चित्र बनाओ (पहाड़, सूर्योदय, पारंपरिक वेशभूषा)

1.भारत का नक्शा बनाकर अरुणाचल प्रदेश में रंग भरें , प्रमुख नदियाँ चिह्नित करो |

2. निम्न बिन्दुओं को ध्यान में रखते हुए अरुणाचल प्रदेश पर अनुच्छेद लिखिए -

- सीमाएँ (चीन, भूटान, म्यांमार, असम, नागालैंड)
- अरुणाचल प्रदेश का क्षेत्रफल
- प्रमुख नदीयाँ : सियांग, सुबनसिरी, लोअर दिबांग
- जलवायु और वनस्पति
- प्रमुख जनजातियाँ
- जनसंख्या
- ब्रिटिश काल में इसका प्रभाव
- 1972 में केंद्र शासित प्रदेश बना
- 1987 में पूर्ण राज्य का दर्जा मिला

3. दिए गए विषयों पर विज्ञापन तैयार कीजिए (On A-4 size sheet)

- पर्यावरण संरक्षण
- पुराना लैपटॉप बेचने के लिए
- मेले के लिए
- (भोजनालय) रेस्टोरेंट के लिए विज्ञापन

MATHEMATICS

Please complete all the tasks systematically in your Math Activity File:

1. Prepare a Maths Journal – Using Art with Maths

The journal should contain the following articles:

(a) Patterns in Nature

(b) Patterns in Mathematics

Provide 5 -7 examples (Including images and diagrams) of maths in everyday life.

Suggested topics:

- Geometry in Architecture
- Symmetry in Nature
- Fibonacci Sequence in Flowers
- Tessellation in Art etc.

2. ALGEBRA (Real Numbers & Polynomials)

Task A (Real Numbers): Investigate patterns in prime factorisation. Explain how the Fundamental Theorem of Arithmetic is used in modern digital cryptography and security keys.

Task B (Polynomials): Draw a detailed graph of the cubic polynomial $p(x) = x^3 - 4x$ on graph paper. Find its zeroes from the curve intersections and algebraically verify the relationship between the zeroes and its coefficients.

3. Verify Consistency of Linear Equations: Use the graphical method to verify conditions of:

- Consistency
- Inconsistency

For a pair of linear equations in two variables

4. (Probability):

Conduct a coin-tossing experiment (toss 3 coins simultaneously 50 times). Record the outcomes and calculate the experimental probability of getting: (i) Exactly 2 heads, (ii) At least 1 tail.

SCIENCE

Biology- Investigatory Project

To evaluate effect of Physical activity and Gender on Breathing Rate. (Details will be shared on V3M)

Physics- Research about different types of telescopes, draw their diagrams and find out about their history and usage and prepare a report on A4 sheets.

Chemistry- Chemicals like acids, bases and salts aren't just lab stuff-they're all around us! from kitchen to the farm to our bodies, they play important roles. Find out the names of ten acids, bases and salts around you and note them in your notebook.

SOCIAL SCIENCE

Research about **ANY ONE** disaster from the list below.

Suggested important Case Studies

Natural Disasters

- Uttarakhand Floods (2013)
- Odisha Super Cyclone
- Indian Ocean Tsunami
- Kerala Floods
- Bhuj Earthquake

Man-Made Disasters

- Bhopal Gas Tragedy
- Chernobyl Nuclear Disaster

Each Case Study Must Include:

1. Name, year and location
2. Type of disaster
3. Causes (natural / human-induced)
4. Areas and population affected (also mark on the map)

5. Human, economic, and environmental impact
6. Role of government, NGOs and local communities
7. Short-term response and long-term rehabilitation
8. Lessons learnt and preventive measures

   Present your research work through an illustrative Project File.

ARTIFICIAL INTELLIGENCE

Make the following programs using Jupyter Notebook and add them to your practical file:

1. Program to input percentage from the user and print the division.

   Use the following criteria to determine the division:

Percentage ≥ 60%	First Division
Percentage ≥ 45% and < 60%	Second Division
Percentage ≥ 33% and < 45%	Third Division
Percentage < 33%	Fail

2. Program to input a list of numbers from the user, and calculate and print the sum of even and odd numbers separately.
3. Program to input a number from the user and check whether it is a prime number or not. Print the result.

PHYSICAL ACTIVITY TRAINER

Organise summer camp and make a presentation

INTRODUCTION TO FINANCIAL MARKETS

1. Make a hand written project file on the topic:

   Dividend Policy Analysis: Examining a company's dividend policy and its implications for shareholders.

   Or

   Risk Management Strategy: Analyzing and proposing strategies to mitigate financial risks.
2. Make a PPT on the topic: Comparison of Financial Institutions or Products: Analyzing and comparing different types of financial institutions or investment products.
3. Do the Practical training on the NSMART portal.

DESIGN THINKING AND INNOVATION

Do **any two of the three** below given activities.

1. Pick up any 2 objects used now a days in daily life and figure out how those 2 objects should evolve to remain useful in the year 2040. Write a short report which includes an actual image of the object(s) you've selected and use the elements of design thinking to redesign them.
2. Write a short story (of at least 800 words) which includes you as a narrator or as the main character of the story.
3. Select a problem (e.g., waste management, smart home device, education tool) and create a "Waste to Wealth" or futuristic innovation. Conduct research or interviews to identify a specific user need and create a "Problem Statement". Sketch, draw, or make a physical model (using recycled materials) of the proposed solution. Compile all findings in a file or scrapbook with appropriate pictures.