IMPERIAL HERITAGE SCHOOL
SECTOR-102, GURUGRAM

SESSION 2025-26

HOLIDAY HOMEWORK

GRADE X

GRADE X HOLIDAY HOMEWORK

"Learning doesn't take a break, and neither should our curiosity."

Dear Parents,
Greetings!

At Imperial Heritage School, we believe in nurturing young minds not just during the academic session, but beyond the classroom as well. Holiday homework plays a **pivotal role** in reinforcing classroom learning while encouraging independent exploration. It offers students the chance to engage with subjects at their own pace and reflect creatively on what they've learned.

🌿 Why Holiday Homework?

- To maintain continuity in the learning process.
- To apply concepts in real-life scenarios.
- To encourage responsibility, time management, and creativity.
- To foster research, problem-solving, and critical thinking skills.

📂 **Project-Based Learning** Each task or project has been designed in alignment with the **CBSE curriculum framework and guidelines**, ensuring relevance, engagement, and developmental appropriateness. These projects aim to promote a hands-on, practical approach that bridges theory with real-world applications.

📝 Evaluation Criteria (Rubrics)

Each subject's Holiday Homework will be evaluated as part of the **Internal Assessment**, based on the following parameters:

Content	Presentation	Relevance	Creativity	Originality	On time Submission

Smart Tips for Completing Your Holiday Homework

📌 Be Original

Let your work reflect your own thoughts and creativity. Avoid copying—originality always stands out!

📌 Plan Your Time Wisely

Divide your work across the holiday period to avoid last-minute stress. A little work each day goes a long way!

📌 Read Instructions Carefully

Each subject has specific guidelines. Go through them thoroughly before beginning.

📌 Neatness Matters

Good handwriting leaves a lasting impression. Ensure your work is clean, well-organized, and legible.

📌 Creativity Counts

Add a personal and creative touch to your presentations—be it through design, layout, or illustrations.

📌 **Leisure Reading is a Must**
Take time to read books of your choice. Reading enhances imagination, vocabulary, and comprehension skills.

📌 **Practice Math Daily**
Math requires consistency. Set aside time each day to revise concepts and solve problems—practice makes perfect!

📌 **Parental Guidance Only**
Parents are encouraged to guide, not complete, the assignments. Let students take the lead in their learning. **Outside help will not be accepted and will be given zero.**

📌 **Focus on Quality**
Aim for meaningful and well-researched content. Quality is more important than quantity.

📌 **Remember the Assessment**
Holiday Homework is part of **Subject Enrichment Activities** and will be evaluated as per the defined rubrics.

Let Curiosity Lead the Way
An inspirational poem for our learners:

"Learning Beyond the Bell"

When the school doors close and bells go mute,
Let not your books sit still or roots take root.
For in the pause, a spark may rise,
To chase new thoughts, to question why.

A walk through pages, a curious glance,
A project that gives your mind a chance—
To think, to build, to dream and do,
To craft a world from a different view.

With pencil, paint, or words you write,
You shape your learning, spark your light.
So take this time and make it shine—
For growth and joy can intertwine. 🌟

Submission Date: 7th July, 2025
Note: No work will be accepted after the said date.

We look forward to seeing the wonderful work our students will create. Let this break be a time to explore, express, and evolve.
Wishing all of you a very joyful, safe and fun packed summer break. Happy Holidays!

Best Regards
Ms. Neelu Sharma
Principal



ENGLISH

I. LESSON INTEGRATED PROJECT

Topic - Hope and Optimism — Finding Light in the Little Things

Integrated Poem – Dust of Snow

Objective - To investigate the meaning of hope and optimism and how they manifest through everyday experiences, literary reflections, personal stories, and artistic creativity. Here's a project outline:



Task 1: Cover page
Create a cover page giving relevant details of your project, a quote and a basic introduction of the theme.

Task 2: Research and Exploration
Choose any literary work (novel, short story, poem, or drama) that explores the theme of hope or optimism.
Write a **book/poem review** that includes:

- Title, author, genre
- Summary of the plot or message
- Explanation of how hope or optimism is depicted in the story
- A few lines connecting it to *Dust of Snow* (how both works highlight transformation through simple experiences)

Suggestions:

- *Pollyanna* by Eleanor H. Porter
- *The Diary of a Young Girl* by Anne Frank
- *The Boy Who Harnessed the Wind* by William Kamkwamba (or the movie)
- *Invictus* by William Ernest Henley

Task 3: Personal Reflection and Analysis
Reflect on a real moment in your life where a small, unexpected incident lifted your mood or gave you hope.
Write a **short narrative** (150–200 words) describing:

- What happened?
- How were you feeling before and after the incident?
- What lesson did it teach you about optimism?

Task 4: Creative Expression
Create a colourful and creative **mind map** of what hope means to you.
Add images, keywords, and personal triggers of optimism (like nature, pets, music, etc.)

Task 5: Artistic Representation
Create 2 **handmade bookmarks** with short, inspiring quotes on hope, optimism, or kindness. Decorate them creatively using colors, doodles, and patterns that match the quote's theme. Use only original, neat artwork—no printed designs. Write your name and class on the back of each bookmark.

Project Guidelines:
1. Make a file of your choice with A4 size sheets only.
2. Sheets can be colourful or plain.
3. Presentation should be neat.
4. Project must showcase your creativity.
5. Plagiarism of any kind will not be accepted.
6. You may add quotes, images, stickers, or decorations to enhance presentation.

II. STATE PAIRING: ART INTEGRATED PROJECT

Topic - The Great Indian Travel Scrapbook

Objective - To research and document the unique cultural and geographical features of Haryana and Telangana through the creation of a scrapbook using Canva or PPT. Here's a project outline:

Task 1: The class will be divided, assigning each student either Haryana or Telangana as their focus.

Task 2: The students will be instructed to conduct research on various aspects of their assigned state. Students may use a variety of sources, including books, articles, websites, and videos.
The various aspects include:

- Economy & Occupation
- Architecture & Urban Life
- Famous Personalities
- Natural Resources & Environment

Task 3: They can use presentation software to design their scrapbook, incorporating text, images, maps, and graphics.

Task 4: Students will share the PPT or Canva presentation via MS Teams and upload it to the assignment section.

III. Cover page: English Portfolio

Make an artistic cover page for your English Portfolio.

IV. Words & Expressions Workbook – II (Self Practice)

Complete all the exercises - Unit 1 to 4 in the Words and Expressions Workbook – II prescribed in the CBSE curriculum.



HINDI

1. मीरा के चित्र सहित उनकी भक्ति से संबंधित एक लघु कथा लिखिए।

2. आपके विद्यालय में विज्ञान प्रदर्शनी का आयोजन किया जा रहा है, उसके लिए (A4 साइज़ शीट पर) एक सूचना लिखिए।

3. कबीर के नीतिपरक दोहों को (A4 साइज़ शीट पर) लिखकर उनकी विशेषताएँ लिखिए।

4. रोजाना हिंदी समाचार - पत्र पढ़ें और प्रेमचंद द्वारा रचित उपन्यास गोदान पढ़कर आपको कैसा लगा? अपने विचार लिखिए।

5. हरियाणा और तेलंगाना राज्य की वेश - भूषा संस्कृति का तुलनात्मक अध्ययन चित्र सहित (A4 साइज़ शीट पर) कीजिए।

- पुरषों की पोशाक
- महिलाओं की पोशाक
- परम्परागत वस्त्र
- सिर पर वस्त्र

6. रचना रजिस्टर एवं कॉपियाँ बनाने वाली कंपनी के लिए एक सुंदर और आकर्षक विज्ञापन तैयार कीजिए।



MATHEMATICS

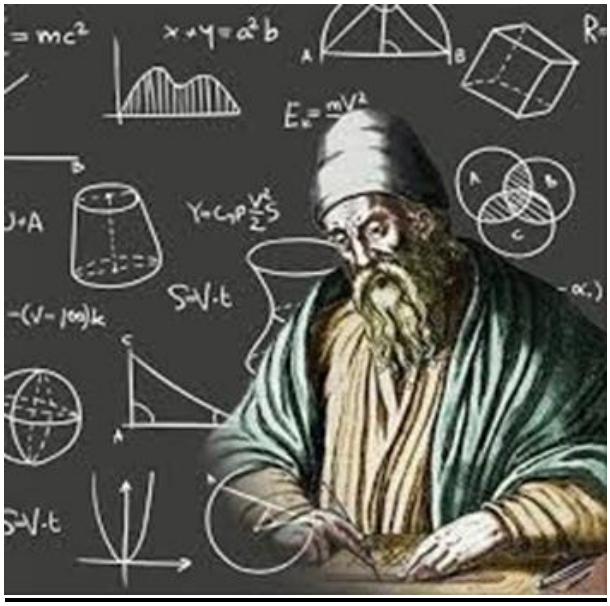
General Guidelines for Students:

1. The homework is given to keep you logically and mathematically sound during the holidays, so please do it judiciously.
2. Please assign half an hour daily for your holiday homework.
3. Your project needs to have a cover page, introduction, content and conclusion.
4. Clearly mention both the parts/ sections of your summer holiday homework neatly.
5. Do proper online survey, wherever required.

(Part A)

a) RESEARCH WORK

Write the biography of EUCLID and explain his contribution in the field of number system.



b) **ART INTEGRATION PROJECT**

Project Guidelines:

1. Make a file of your choice with A4 size sheets only.
2. Sheets can be colourful or plain.
3. Presentation should be neat.
4. Project must showcase your creativity.
5. Draw bar graph and pie graph neatly and use graph paper to draw it.

i) **Task 1:** Do a comparison between the population of Haryana and Telangana. Represent it through a bar graph.

ii) **Task 2:** Do a religion wise survey of the population of Haryana and Telangana. Represent the above information through a pie graph.

iii) **Task 3:** Find the number of men, women and children in Haryana and Telangana and draw the double bar graph for the comparison.

c) **COVER PAGE**

Design a cover page for you Math Portfolio

(Part B)

Write the following Math activities in your Practical file.

1. Find the sum of first n natural numbers.
2. Factorize a quadratic equation $ax^2 + bx + c = 0$,where a,b,c all are positive.
3. Verify Basic Proportionality Theorem experimentally.
4. Find the area of circle experimentally.

(Part C)

1. Prepare a mind map of the topic as per given roll no.

   Polynomials

   Linear Equation in two variables

   Statistics

   Where to do : In A4 size coloured sheet

2. NCERT : Do all examples of Ch 1, 2,3.4 & 13

3. NCERT Exemplar : Do 20 questions daily from NCERT exemplar on above topics

   Where to do: In practice notebook

SCIENCE

PHYSICS



1. Draw a well-labelled diagram of the human eye on an A3-sized sheet.
2. Eye defects, also known as refractive errors, are problems with how the eye focuses light onto the retina, resulting in blurred or distorted vision. Common refractive errors include myopia (near-sightedness), hypermetropia (farsightedness) and presbyopia. List out
   (a) Causes,
   (b) Symptoms and
   (c) Corrections for each of the defects on A4-size sheets. Also, draw neat and clean labelled diagrams of defects and their correction to support your answer.
3. Design an attractive portfolio cover page on an A4 size colored sheet for Science Portfolio.
4. **Activity-**
   (i) Even roll no.-Prepare a demonstration showing the reflection of light in our daily life.
   (ii) Odd roll no. - Prepare a demonstration showing the refraction of light in our daily life.

   NOTE- The demonstration will be given by the students during the Physics Lab hours. The student has to demonstrate and explain the phenomenon with the help of a simple setup.

CHEMISTRY

A: Making of red cabbage pH papers (you'll need to extract the pigment from red cabbage, then soak filter paper in it to create pH test strips.). This natural indicator will change color depending on the pH of a solution, turning pink/red in acids and green/blue in base. Check the Acidic and Basic nature of ten substances available at home (like juices or vegetable crush or soap or lemon or Fruits. Click pictures while conducting the activity and record the video for the same. Video Link can be shared on TEAMS)





OR

Make a comparative study on any of the following using the material available at home to set up the activity. Take pictures and paste them to make a report on A4 sheet (includes Aim of Activity, Material required, Observation and Result)

(a) Cleaning capacity of a sample of soap in soft and hard water
(b) Adverse effects of contents of soft drinks
(c) Correlation between Rusting and Corrosion
Reference: Lab Manual

B. Art and State Integrated Activity

Read about at least two scientists from Telangana state and Haryana state separately for their contribution in Science and Technology and write about their life, their contribution and institutes they worked with.

Note: All figures will have a figure caption.

BIOLOGY

ACTIVITY 1

This activity is based on Chapter Management of Natural Resources and it will be incorporated in the portfolio. In this activity, we wish you to make a detailed report on the topics as per the roll numbers mentioned below on A4 sheets:



Forests and Wildlife (Even Roll numbers)

Topics to be covered:

a) Forestry in India, Significance of Forests, Stakeholders of Forests, Deforestation and conservation of Forests.
b) Importance of Wildlife, Threats to Wildlife, Endangered species, Conservation of Wildlife.
c) People's Participation in Conservation and Management of Forests.

Water for all and Water Harvesting (Odd Roll numbers)

Topics to be covered:

a) Water Resources, Deterioration of Water Resources, Water Pollution, Management and conservation of Water Resources, Dams.
b) Need of Water Harvesting, Rainwater Harvesting, Watershed Management, Benefits of Underground Water.
c) People's Participation in Conservation and Management of Water



Note:

- Make a file of your choice with A4 size sheets only (sheets can be colourful or plain).
- Use illustrative pictures (printout or drawing) and data wherever necessary to make the project informative.
- Apart from the above-mentioned content, project should include the following:

  - Cover page
  - Acknowledgments (Thanksgiving to those who helped you in understanding the concept of the project).
  - Bibliography (all the sources of information where you gathered the information from; examples: books, internet links etc.)

ACTIVITY 2

Make well labelled diagrams of the following on A4 size sheets (use NCERT for the reference):

a) Human Elementary Canal
b) Human Respiratory System
c) Human Heart
d) Schematic representation of transport and exchange of oxygen and carbon dioxide
e) Human Excretory system
f) Structure of Nephron

SOCIAL SCIENCE







Every student must undertake one project on the given topic.
Consumer Awareness OR Social Issues OR Sustainable Development

1. Choose a Title/Topic
2. Need of the Study, Objective of the Study
3. Hypothesis
4. Content -Timeline, Maps, Mind maps, Pictures, etc. (Organization of Material/Data Present Material/Data)
5. Analyzing the Material/Data for Conclusion
6. Draw the Relevant Conclusion
7. Bibliography

The distribution of marks over different rubrics relating to Project Work is as follows:

S.no	Aspects	Marks
a	Content accuracy, originality, and collaborative skills	7
b	Competencies exhibited and Presentation	7
c	Viva	6

Total Marks: 20

ECONOMICS

Activity 1: The Sustainable Development Goals (SDGs), also known as the Global Goals, were adopted by the United Nations in 2015 as a universal call to action to end poverty, protect the planet, and ensure that by 2030 all people enjoy peace and prosperity. Human rights are essential in achieving sustainable development that leaves no one behind and are central to all its three dimensions – social, environmental, and economic. This is reflected in the transformative ambition of the 2030 Agenda for Sustainable Development.

SDGs highlight upon "The Lazy Person's guide to Saving the World"-United Nation Sustainable development. Using this information list the guidelines of saving the Earth and sketch any five goals of SDG's in an A4 size coloured sheet.

Guidelines for the Project:

1. Create five SDG's.
2. Keep your project neat, colourful, and well-organized.

Rubrics

Sl.No	Aspects	Marks
a	Content accuracy, originality and collaborative skills	2
b	Competencies exhibited and Presentation	2
c	Handwriting	1

SANSKRIT



1. हरियाणायाः पुण्यभूमौ श्रीकृष्णेन अर्जुनाय दत्तं भगवद्गीताया उपदेशं मध्ये चत्वारः श्लोकाः चित्रैः सह हिन्दीभाषया अर्थं च A3 पत्रे दर्शयन्तु।
2. तेलङ्गाणाराज्यस्य प्रमुखानि आकर्षणानि यथा - हैदराबादनगरम्, चारमीनारम्, गोल्कोंडा-दुर्गः च। एतेषां मध्ये कस्यचित् एकस्य स्थलस्य चित्रं A3 पत्रे निर्माय, तस्य विषये संस्कृतभाषायां अनुच्छेदं लिखन्तु।
3. हरियाणायाः च तेलङ्गाणायाः सांस्कृतिकं वैभवम्, पारम्परिक-विरासत्, उत्सवाः, पारम्परिक-वेषभूषा च संगीतस्य जानकारी संगृह्य चार्ट-पत्रे प्रदर्शयन्तु।



FRENCH

- **Famous French Personalities**
  Choose a French celebrity (actor, artist, athlete, etc.) and make a small biography in French — name, age, profession, and 3–4 interesting facts on A4 sheet.

- **Créer une publicité (Create an Advertisement)**
  Design an advertisement poster in French for a product (real or imaginary). Include catchy phrases, product benefits, and pricing.

- Écrivez une lettre à votre ami (amie) en décrivant un roman que j'ai lu. (on A4 sheet)

- Faites les exercices de la leçon 2et 3 dans le cahier d'exercices.

- Solve the French Practice paper 1 and 2 from "Together with French" (Only Grammar and literature) in the French notebook.

ARTIFICIAL INTELLIGENCE

1. **Project Work:**
   Create a Chatbot or a Tic-Tac- Toe game using Python and send the recording of the working model on MS Teams along with the code.



2. Start making your AI Practical File for Term-1. The practical file should contain min 10 practical questions and max 15 questions.

3. Daily practice 5 programs of Python and maintain a word doc for the same and to be uploaded on MS Teams.

Guidelines:
- For details refer to the PDF document attached on MS Teams.
- Projects to be submitted on MS Teams.

Assessment Rubrics:
For Project Work
- Proper working of the game
- Explanation of the video
- Concept Clarity

For AI Practical File:
- Neatness
- Cover Page design
- Variety of Programs

"A little more persistence, a little more effort and what seemed hopeless failure may turn to glorious success."
—Elbert Hubbard