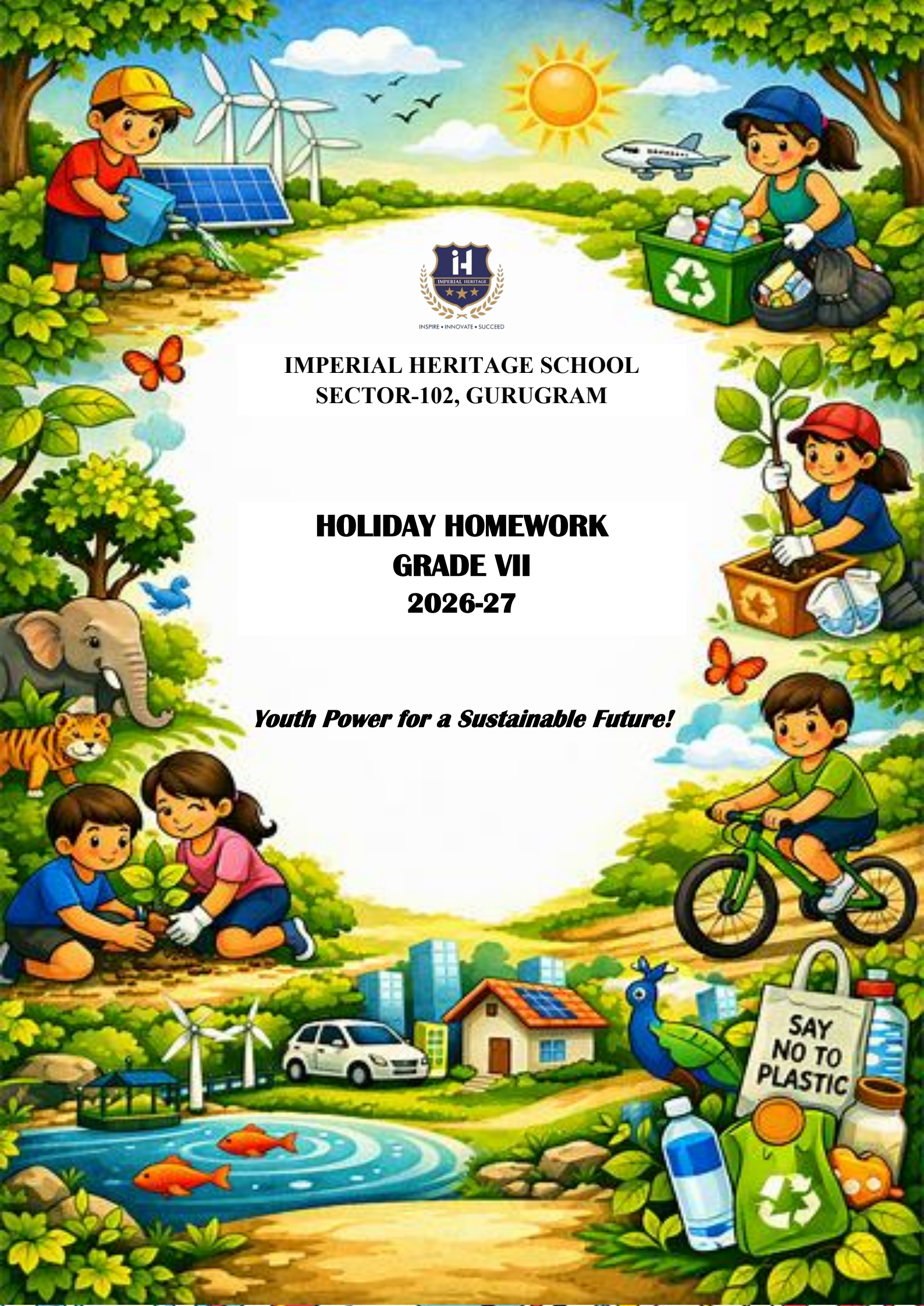




**IMPERIAL HERITAGE SCHOOL
SECTOR-102, GURUGRAM**

**HOLIDAY HOMEWORK
GRADE VII
2026-27**

Youth Power for a Sustainable Future!



“Curiosity Never Goes on Vacation—and neither does the joy of learning.”

Dear Parents,

Warm greetings!

At Imperial Heritage School, we view learning as a continuous journey—one that extends far beyond the classroom walls. The purpose of holiday homework is not merely to keep students occupied, but to inspire them to explore, reflect, and grow independently. It is an opportunity for children to connect classroom knowledge with the world around them, while discovering their own unique ways of learning.

The Purpose Behind Holiday Homework

Holiday assignments are thoughtfully designed to:

- Sustain the rhythm of learning even during the break
- Encourage application of concepts in everyday life
- Develop responsibility, discipline, and effective time management
- Strengthen analytical thinking, creativity, and problem-solving abilities

Learning Through Projects

Each assignment is aligned with CBSE guidelines and focuses on experiential, project-based learning. These tasks are curated to ensure meaningful engagement, allowing students to bridge theory with practical understanding in a creative and enjoyable manner.

Assessment Parameters

Holiday homework will form a part of Internal Assessment and will be evaluated on:

- Content
- Presentation
- Relevance
- Creativity
- Originality
- Timely Submission

Kindly Note the Holiday Homework Marks are added in the Internal Assessment mark for Term I.

Guidelines for Students

- **Be Authentic:** Your work should reflect your own ideas and efforts.
- **Plan Ahead:** Break tasks into small parts and complete them gradually.
- **Follow Instructions:** Read each guideline carefully before beginning.
- **Maintain Neatness:** Clear, organized work always creates a strong impression.
- **Think Creatively:** Present your work in an innovative and engaging manner.
- **Read Daily:** Cultivate the habit of reading to expand your imagination and language skills.
- **Practice Mathematics:** Consistency is key—regular practice leads to mastery.
- **Seek Guidance, Not Substitution:** Parents may guide, but students must complete the work independently.
- **Prioritize Quality:** Focus on depth, clarity, and meaningful content.

A Fresh Thought for Our Learners

“Where Questions Bloom”

When holidays stretch like open skies,

Let wonder wake and questions rise.

Not all learning lives in books,

It hides in paths and curious looks.

In silent thoughts, in things you make,

In every risk you choose to take,

In colours mixed or stories spun,

In problems solved just for the fun.

A restless mind, a seeking heart,

That’s where true journeys always start.

So, learn, explore in your own way—

Let curiosity lead each day.

Submission Date: 6th July, 2026

We eagerly await the thoughtful and creative work our students will present. May this vacation be a time of joyful discovery, meaningful experiences, and personal growth.

Wishing you all a safe, refreshing, and enriching summer break!

Warm regards,

Ms. Neelu Sharma
Principal

TOPIC: “Clean and Green India: Youth Leading the Way to a Sustainable Future”



The theme “**Clean and Green India: Youth Leading the Way to a Sustainable Future**” highlights the vital role young people can play in protecting the environment and building a healthier nation. With growing awareness about climate change, pollution, and resource conservation, today’s youth are stepping forward with innovative ideas and responsible actions. From reducing plastic use and promoting recycling to supporting renewable energy and sustainable lifestyles, young minds are actively contributing to a cleaner and greener future. Their creativity, energy, and sense of responsibility can inspire communities to adopt eco-friendly practices, ensuring a balance between development and environmental protection.

In India, this movement holds even greater importance. As a rapidly developing nation, India faces challenges like air pollution, waste management, and water conservation. However, the country’s youth are rising to the occasion—leading cleanliness drives, participating in tree plantation campaigns, and supporting initiatives like Swachh Bharat Abhiyan and various climate action programs. With the support of government initiatives and increasing environmental education, young Indians are finding practical solutions such as waste segregation, eco-friendly products, and awareness campaigns. By taking small yet meaningful steps, they are helping transform India into a nation that values sustainability and respects nature.

This holiday homework is not just an academic activity—it is an opportunity for students to observe their surroundings, understand environmental challenges, and take initiative toward positive change. Through creative projects, research, and practical actions, students are encouraged to think responsibly and act consciously. The future of a clean and green India lies in their hands, and with dedication and awareness, they can make a lasting difference.

Note: The CBSE paired state initiative, part of the **Ek Bharat Shreshtha Bharat (EBSB) program**, is designed to foster national integration by pairing every state and Union Territory (UT) with another for a year to facilitate structured cultural and educational exchanges. Special assignments have also been given for the paired state *Telangana*, encouraging students to explore its environmental initiatives and contributions toward a sustainable India.

ENGLISH

TASK 1 - Story Writing OR a comic strip

Title: “The Day Earth Smiled”

Write a short humorous story where people start following eco-friendly habits and it leads to funny situations.

Guidelines:

- Include characters & setting from the southern state of Telengana.
- Show an environmental related problem from the state and its solution
- Highlight its positive impact on people and their lifestyle
- Add a message about sustainability that the characters wish to convey to their readers

TASK 2 - Create a 5-day eco album to show how you care for the environment in your daily life.

What to do:

- Perform simple eco-friendly actions every day for one week
- Click and paste real-life pictures of yourself doing these activities

You may include actions like:

- Saving water and electricity
- Avoiding plastic (using cloth bags, steel bottles, etc.)
- Planting or taking care of plants
- Keeping your surroundings clean
- Recycling or reusing materials

Album Guidelines:

- One page for each day (Day 1 to Day 5)
- Add a **short caption (2–3 lines)** explaining each activity
- Decorate your album creatively

TASK 3 - Create & Present – “My Sustainable Innovation”

Make a simple eco-friendly product or model and present a short speech explaining it.

What to do:

- Create something useful using waste or eco-friendly materials
(*e.g., pen stand from bottles, bird feeder, cloth bag, mini compost model, etc.*)

Speech Guidelines:

- Speak for 1–2 minutes about your creation
- Include:
 - What you made
 - Materials used
 - How it helps the environment
 - Why people should use it

Presentation:

- Show your model while speaking
- Use clear and confident English

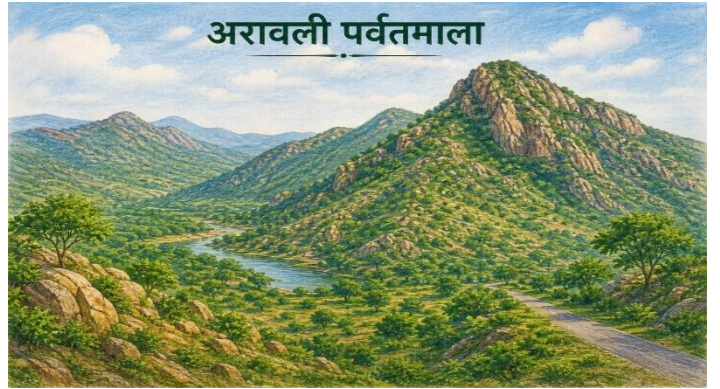
हिंदी

1. "भारत को एक स्वच्छ, हरा-भरा और सतत (Sustainable) राष्ट्र बनाना हम सबकी जिम्मेदारी है। इस उद्देश्य की पूर्ति हेतु, 'सतत और हरित भारत' विषय पर एक आकर्षक 'प्रतिज्ञा पत्र' तैयार कीजिए।

कार्य के मुख्य बिंदु:

- एक A4 साइज चार्ट पेपर या अपनी स्कैपबुक के पन्ने का उपयोग करें।
- प्रतिज्ञा पत्र में कम से कम 5 ऐसे संकल्प लिखें जिन्हें आप स्वयं अपने दैनिक जीवन में अपनाएँगे (जैसे: प्लास्टिक का त्याग, जल संरक्षण, पौधारोपण आदि)।
- अपने प्रतिज्ञा पत्र को नारों (Slogans) और प्राकृतिक चित्रों या कलाकृतियों से सजाएं।

2. अरावली की पुकार" शीर्षक से एक कल्पनात्मक कहानी लिखिए, जिसमें अरावली पर्वत स्वयं मानव से संवाद करता है और अपने संरक्षण की आवश्यकता को समझाता है। कहानी में प्रकृति और मानव के संबंध को रोचक ढंग से प्रस्तुत कीजिए।



मुख्य बिंदु

1. भूमिका (आरंभ)
 2. समस्या की शुरुआत
 3. कल्पनात्मक मोड़ (मुख्य आकर्षण)
 4. संवाद/संदेश
 5. समाधान
 6. निष्कर्ष (समापन)
3. हरियाणा के लोक नृत्य और तेलंगाना के लोक नृत्य में विशेषताएँ और अंतर चित्र सहित लिखिए।



हरियाणा का लोक नृत्य



तेलंगाना का लोक नृत्य

MATH

“Think Green. Live Clean. Save the Future.”

MODEL / DISPLAY PROJECT

“Math for Green India – A Sustainable Solution”

TASK 1:

Design a math-based model showing how the given Large numbers help solve environmental problems.

Must Include:

1. Startup Name & Logo
2. Tagline (Example: “Smart Maths for a Green Future”)
3. Model with labels
4. A3 Chart explaining:
 - a. Problem
 - b. Mathematical Concept (Chapter-based)
 - c. Working
 - d. Solution
 - e. Benefits



ROLL NUMBER-WISE TASKS (CHAPTER BASED)

Roll No. 1–10: Large Numbers – Water & Resource Management

Concept: Reading, writing & comparing large numbers

Task:

- Show water usage in a city (in litres)
- Example: 12,50,000 L vs 8,75,000 L
- Find: Difference & Which is more/less

Model Idea: Water usage chart

Startup Idea: “WaterWise India”

Roll No. 11–20: Arithmetic Expressions – Pollution & Energy Calculation

Concept: BODMAS

Task: Solve real-life expressions like:

- $(50 \times 8) + (120 \div 3)$
- $(1000 - 250) \times 2$

Model Idea:

- Show pollution calculation or electricity usage

Startup Idea: “EcoCalc”

Roll No. 21–30: A Peek Beyond the Point – Climate Change (Integers)

Concept: Positive & Negative numbers

Task:

- Show temperature changes:
 $+5^\circ\text{C} \rightarrow -2^\circ\text{C} \rightarrow +3^\circ\text{C}$

Find:

- Total change
- Highest & lowest temperature

Model Idea: Number line showing temperature

Startup Idea: “Climate Tracker”

TASK 2:
“Green Math Startup Advertisement”

Task: Design a poster/flyer

Include:

- Startup Name & Logo
- Tagline (*Think Green. Live Clean*)
- Math concept used
- 2–3 benefits

Example Ideas:

- “WaterWise India” – Saves water
- “EcoCalc” – Calculates pollution
- “Climate Tracker” – Tracks temperature

OR

TASK 2:

ACTIVITY TASK

Title: “My Green Data Collection”

Survey 10 people:

Question:

“What eco-friendly habits do you follow?”

Options to choose from:

1. Saving water (turning off taps, using less water)
2. Switching off lights and fans when not in use
3. Using cloth bags instead of plastic
4. Planting trees or taking care of plants
5. Recycling and reusing materials
6. Walking or cycling instead of using vehicles

Represent the data collected in the following forms:

- Tally marks
- Bar graph

Answer the following questions given below based on your survey:

- Most common habit
- Least common habit
- Why data is useful?

TASK 3: REFLECTION ACTIVITY

“How Mathematics Helps in Saving Environment” (80–100 words) on A 4 sheet

TASK 4: QUESTION BANK (UPLOADED ON ERP)

GENERAL INSTRUCTIONS

- Show all steps clearly
- Use neat diagrams
- Be creative
- Submit in a proper file

SCIENCE

ACTIVITY 1

Sustainable Green India – Model Making

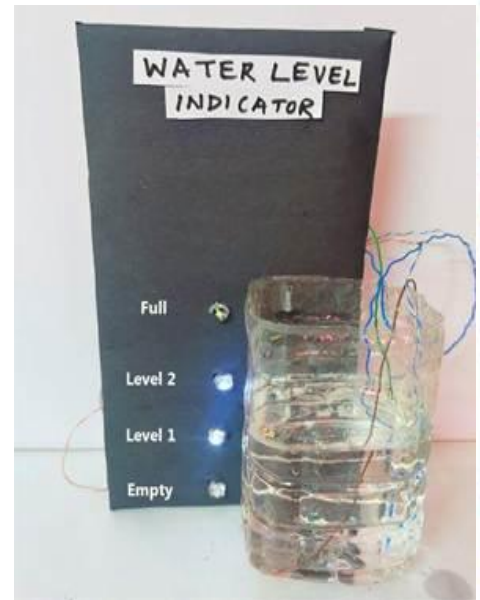
Objective: To understand real-life environmental problems and create simple science-based working models that offer sustainable solutions.

General Instructions:

- Prepare a working model using easily available materials. Make an A3 chart including:
 - Problem
 - Scientific Concept
 - Working of the Model
 - Benefits / Usefulness
- Add a creative title, tagline, and labels to your model.
- Keep your project neat, innovative, and eco-friendly.
- Students should be ready to explain their model (viva).

1. Water Level Indicator (AquaAlert) (Roll no. 1-6)

- ◇ Problem: Water tanks overflow, leading to wastage of water.
- ◇ Scientific Concept: Electric circuit – water can conduct electricity.
- ◇ Working: When water rises and touches metal points, the circuit is completed and an LED/buzzer turns ON, indicating the water level.



2. Solar Cooker Model (Roll no. 7-12)

- ◇ Problem: Excessive use of fuel causes pollution and resource depletion.
- ◇ Scientific Concept: Solar heat trapping – sunlight is absorbed and retained.
- ◇ Working: Sunlight reflects inside the box using foil and gets trapped, producing heat that can cook or warm food.



3. Mini Air Purifier (DIY) (Roll no. 13-18)

- ◇ Problem: Air pollution affects health and environment.
- ◇ Scientific Concept: Filtration – removing impurities from air.
- ◇ Working: A small fan pulls air through a filter (cloth/charcoal), trapping dust and pollutants, giving cleaner air.



4. Hydroelectric Power Model (Roll no. 19-25)

- ◇ Problem: Increasing demand for electricity and dependence on fossil fuels causing pollution.
- ◇ Scientific Concept: Conversion of potential energy of stored water into mechanical and electrical energy.
- ◇ Working: Water stored at a height flows down through a pipe, rotates a turbine connected to a generator or motor, which produces electricity (can be shown using an LED).



5. Rain Water Harvesting Model (Roll no. 26-31)

- ◇ Problem: Water scarcity and wastage of rainwater.
- ◇ Scientific Concept: Collection and storage of rainwater; groundwater recharge.
- ◇ Working: Rainwater from rooftops is collected through pipes, passed through a filter, and stored in a tank or directed into the ground for recharge.



ACTIVITY 2

Poster-Making:

Create a poster on the allotted sustainable energy topic, clearly illustrating its working, scientific concept, and benefits in promoting a Sustainable Green India such as reducing pollution, conserving resources, and using renewable energy sources on 2 A3 size sheets.

Roll No. 1–5: Solar Roads Technology- Energy generation from roads, solar panels integration

Roll No. 6–10: Algae-Based Biofuel Production- Biofuel from algae, alternative energy source

Roll No. 11–15: Geothermal Energy Utilization- Earth's heat energy, sustainable power source

Roll No. 16–20: Biogas Plants from Household Waste- Organic waste to energy, sustainable fuel

Roll No. 21–25: Tidal Energy Power Generation- Ocean energy, renewable electricity from tides

Roll No. 26–31: Piezoelectric Energy from Footsteps- Energy from pressure, smart infrastructure

ACTIVITY 3- Paired state: Telangana

Prepare a PowerPoint presentation on the concept of a Sustainable City, incorporating the vision and key features of the Telangana Clean and Green Energy Policy, 2025. Highlight innovative and practical solutions for sustainability in roads, homes, offices, and municipal centers, including efficient waste management, resource conservation, use of renewable energy sources, and eco-friendly technologies that contribute to a cleaner and greener environment.

Submission:

- Upload your PPT on **Microsoft Teams**

SOCIAL SCIENCE

1. Sustainable India (Model)

Roll no 1- 15 Sustainable Agriculture Model

Create a 3D model showing traditional vs sustainable farming.

Include elements like:

- Organic farming
- Rainwater harvesting
- Crop rotation
- Use of natural fertilizers

Sustainable Agriculture in India



Roll no 16- 31 Soil Conservation Model

Show methods like:

- Terrace farming
- Contour ploughing
- Planting trees

2. Click and create: Waste Management and Clean India

Focus: Role of students in keeping India green.

Task: Create **Video or PPT** based on waste management practices.



Instructions:

- Click **2–3 pictures** of yourself doing activities related to waste management (for example: segregating waste, recycling, using dustbins, composting, etc.).
- Create a **short video or PowerPoint presentation (PPT)** using these pictures.
- After each picture, add **2–3 lines explaining:**
 - What you are doing
 - Why this action is important for the environment

Example Explanation:

- *I am separating dry and wet waste.*
- *This helps in proper recycling and reduces pollution.*

Submission:

- Upload your video/PPT on **Microsoft Teams**.

3. Forests and Wildlife Conservation – A Comparison of Haryana & Telangana

Task: Comparative Study

Prepare a chart / scrapbook / PPT comparing Haryana and Telangana on the following aspects:

Aspect:

- Type of forests
- Major wildlife species
- National parks / sanctuaries
- Forest cover (approx.)
- Conservation efforts by government



संस्कृत

हरितं भारतम् / पर्यावरण-रक्षणम्

१. लेखन कार्यम् (Writing Work) (A4 Sheet)

- Write a Sanskrit diary (दिनचर्या) for 5 days of holidays
- Write a Sanskrit slogan (नारा) on Green India — create 5 original slogans



२. सृजनात्मक कार्यम् (Creative Work) (A3 Sheet)

- Make a poster of Subhashitas सुभाषितानां with illustrations
- Sanskrit शब्द-पहेलिका crossword puzzle using vocabulary

३. संस्कृत परियोजना (Project Ideas) (A3 Sheet)

मम परिवारः Write about your family in Sanskrit with a family tree

४. सुभाषितानि (Subhashitas on Nature) (A3 Sheet)

Learn, write and explain the meaning of these shlokas:

"वृक्षो रक्षति रक्षितः" (He who protects the tree, the tree protects him)

"पृथिव्यां त्रीणि रत्नानि जलमन्नं सुभाषितम्" (Three jewels of earth — water, food, and good words)

- Write each shloka, its meaning in Hindi and how it **relates** to sustainability



५. कला -चित्र-नामकरणम् (तेलङ्गाणम् च हरियाणा च)

तेलङ्गाण-प्रदेशस्य चार्मिनारम् तथा हरियाण-प्रदेशस्य कुरुक्षेत्रम् आरेख्यताम्। सर्वे भागाः संस्कृतेन सुशोभनेन देवनागरी-लिप्या नामांकिताः भवन्तु। (A3 Sheet)

Draw Charminar (Telangana) and Kurukshetra (Haryana). Label all parts in Sanskrit with neat Devanagari script

FRENCH

L'Inde est un beau pays avec des montagnes, des rivières et des forêts. Mais aujourd'hui, l'environnement est en danger à cause de la pollution. Nous devons protéger la nature pour un avenir meilleur.

Task 1. Petit projet (scrapbook)

Fais un scrapbook avec 4–5 pages:

- Page 1: Introduction
- Page 2: Haryana (écosystème et initiatives vertes)
- Page 3: Telangana (ex : programme Haritha Haram)
- Page 4: Problèmes + solutions
- Page 5: Conclusion

Task 2. French Vocabulary Tree

Draw a big tree on A3 sheet and write the words in French

- Draw the leaves and write French eco-words
(*l'eau, l'air, les arbres, recycler*)
- Roots = importance of nature

Task 3. “Ma Maison Écologique” (My Eco-Friendly House) – Model

Build a small house model showing:

- Solar panels
 - Garden
 - Rainwater harvesting
- Describe in French:
- “*Ma maison est écologique.*”



COMPUTATIONAL THINKING & ARTIFICIAL INTELLIGENCE

Objective: To understand ethical issues in Artificial Intelligence (AI), explore real-world examples of bias, and connect these ideas with sustainability and responsible digital citizenship for building a greener India. Students use Excel data handling and visualization to draw conclusions.

**GRADE VII HOLIDAY HOMEWORK:
AI ETHICS FOR SUSTAINABLE & GREEN INDIA**
— EXPLORING APP LAB & MS EXCEL —

PART 1: APP LAB - CREATING AN AI ETHICS APP

- DESIGN AN APP INTERFACE ON AN AI ETHICS TOPIC (e.g., Fair Resource Allocation, Waste Management).
- USE UI ELEMENTS, EVENT HANDLERS.
- THINK ABOUT USER IMPACT.

PART 2: MS EXCEL - DATA ANALYSIS & VISUALIZATION

- COLLECT RELEVANT DATA RELATED TO SUSTAINABILITY IN INDIA (e.g., Pollution Levels, Green Cover).
- ANALYZE DATA & CREATE MEANINGFUL CHARTS IN EXCEL.
- DERIVE INSIGHTS.

THEME: AI ETHICS FOR SUSTAINABLE & GREEN INDIA

KEY DELIVERABLES: SUBMIT YOUR APP LINK & SHARE A DIGITAL PRESENTATION OR REPORT WITH EXCEL CHARTS & FINDINGS.

SUBMISSION DEADLINE

1. Create an app using [Code.org](https://code.org) App Lab on the theme:
“Fair AI for a Green Future”

Create an interactive app that teaches students how AI decisions can sometimes be biased, while also showing how AI can support eco-friendly practices in India.

Some suggested apps:

- AI Fairness Quiz: A simple quiz app where users answer questions about fairness, privacy, and transparency in AI.
- Green Tracker App: Users log eco-friendly actions (planting trees, recycling, saving electricity) and earn badges.
- Pollution Awareness App: Shows local air quality data and suggests daily green habits.
- Energy Saver App: Provides tips on reducing energy use and tracks personal progress.

The app should have 3–4 screens (Home, Info, Activity, Feedback)

NOTE: Share the link to the app project in MS Teams.

2. **Renewable energy generation in Haryana & Telangana Case Study.**

Step 1: Data Collection: Students will collect sample dataset on Renewable Energy Generation in Haryana and Telangana on the website:

<https://www.kaggle.com/datasets/akulvaishnavi/renewable-energy-generation-in-india-2022-23>

Make the table in the following format in MS Excel/Google Sheets:

	Haryana	Telangana
Wind		
Solar		
Biomass		
...		

Step 2: Make a Bar Chart for the table to compare the Renewable Energy Generation in two states.

Step 3: Write a report on the inferences drawn on the basis of the chart like which state is able to produce the most renewable energy in various categories.

NOTE: Upload the Excel file with the name “Excel_Studentname” & PDF as “Report_Studentname” in MS Teams.