



**AMENITY PUBLIC SCHOOL  
HOLIDAY HOMEWORK (2026-27)  
CLASS IX**



*Summer vacation is not only a time to relax, but also an opportunity to refresh your mind, discover new interests, and prepare yourself for the journey ahead. Use this break wisely to grow, recharge, and return stronger than before.*

*“The quiet moments of rest today often become the foundation of tomorrow’s success.”*

Dear Students,

The long-awaited summer holidays are finally here! While it is important to enjoy and unwind, it is equally essential to remain productive and make meaningful use of your time. A healthy balance between enjoyment and learning will help you come back motivated, energetic, and ready for new challenges.

Here are a few suggestions to make your vacation enjoyable as well as valuable:

- 1. Strengthen Your Studies:** Revise important concepts and complete all pending assignments or projects on time.
- 2. Explore Your Interests:** Spend time developing hobbies such as sketching, dancing, reading, singing, photography, or creative writing.
- 3. Stay Active and Healthy:** Reduce unnecessary screen time and include physical activities like sports, exercise, yoga, or outdoor games in your routine.
- 4. Develop Reading Habits:** Read books, newspapers, journals, or magazines regularly to improve your knowledge and vocabulary.
- 5. Take Care of Your Well-being:** Practice meditation, mindfulness, or other calming activities. Spend meaningful time with family and friends and create beautiful memories together.

*Let your imagination shine bright,  
Keep learning with curiosity and delight.  
Stay healthy, active, and full of cheer,  
And make this summer your best one this year.*

**Wishing You a Joyful and Refreshing  
Summer Vacation!**

## ❖ ENGLISH (184)

**NOTE:** Present your work neatly in the *Creative Notebook* with colours and illustrations wherever possible.

### *‘Carbon Footprints: A Growing Threat to Our Environment’*

**Q1.** Write a **letter to the Editor** of ‘The Chronicle’ expressing your concern about the increasing carbon footprints and suggesting measures to reduce environmental damage.

**You may include:**

- pollution caused by industries and transport
- excessive use of electricity and fuel
- deforestation and waste generation
- importance of renewable energy and tree plantation
- awareness among citizens and students

**Q2.** Today’s students are tomorrow’s leaders. By adopting eco-friendly habits and spreading awareness, young people can play a major role in protecting the environment and reducing carbon footprints.

Write an **inspiring article** for your school journal highlighting the issue and suggesting the best practices that can be adopted by individuals to bring about a visible change on the topic:

**‘Students as Environmental Leaders: Small Actions, Big Impact’** (Word limit: 120-150 words)

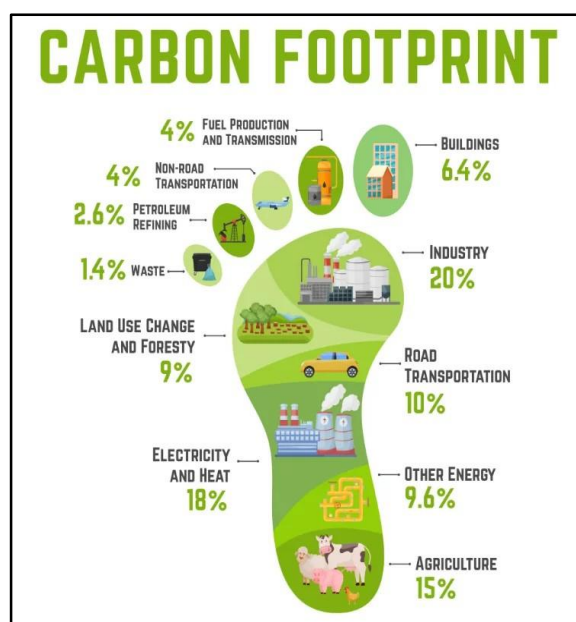
**Q3.** Create **bookmarks** for your English notebooks using recycled or eco-friendly materials. Your bookmark should:

- be made using recycled or eco-friendly material
- include creative drawings, symbols, or nature-themed design
- carry meaningful environmental slogans or message
- promote green habits and reduction of carbon footprints

**Q4.** Study the infographic on Carbon Footprints carefully. It presents different sectors contributing to carbon emissions. Write a **paragraph** in about 120–150 words **analysing** the data given in the infographic. Compare the major contributors and suggest possible solutions to reduce carbon footprints.

**You may include:**

- highest and lowest contributors
- comparison between sectors
- impact on the environment
- importance of sustainable practices and renewable energy
- conclusion based on the data provided



**Q5.** Your school is organising an Eco Awareness Week to promote eco-friendly habits and reduce carbon footprints. As the Head Boy/Head Girl, draft a **notice** in about 50 words informing students about the event and encouraging them to participate enthusiastically.

❖ **HINDI (085)**

1. कार्बन फुटप्रिंट (Carbon Footprint) विषय पर पोस्टर बनाइए या कोलाज तैयार कीजिए।



2. नारा लेखन – कम कार्बन, सुरक्षित जीवन

3. कविता लेखन – धरती की पुकार

4. DIY Activity – वेस्ट वस्तुओं से कोई एक उपयोगी वस्तु बनाइए।

5. ग्रीन डायरी – पर्यावरण बचाने हेतु आपके द्वारा किए गए प्रयास लिखिए।

❖ **MATHEMATICS (041)**

1. A local reforestation project estimates that a single mature tree absorbs roughly 22 kg of CO<sub>2</sub> per year. A small delivery business calculates its fleet's carbon footprint to be 15,400 kg of CO<sub>2</sub> annually.

2. Write a linear equation modeling the business's net carbon emissions ( $y$ ) in terms of the number of trees ( $x$ ) they plant. Assume their baseline emissions remain constant at 15,400 kg.

3. Find the  $x$ -intercept of this equation. What does this specific value represent in the context of the business becoming 'carbon neutral'?

## ❖ SCIENCE (086)

### • Investigatory Project

#### **Carbon Footprint: ‘Measuring Our Impact on the Environment’**

##### **Aim of the Project**

To study the concept of carbon footprint, identify activities that increase carbon emissions, and explore ways to reduce environmental impact in daily life.

##### **Introduction**

A **carbon footprint** is the total amount of greenhouse gases, mainly carbon dioxide (CO<sub>2</sub>), released into the atmosphere due to human activities. These emissions come from transportation, electricity use, industries, burning fuels, deforestation, and excessive consumption of resources.

An increase in carbon footprint leads to:

- Global warming
- Climate change
- Melting glaciers
- Air pollution
- Extreme weather conditions

Reducing carbon footprint is essential for protecting Earth and ensuring a sustainable future.

##### **Objectives**

- To understand the meaning of carbon footprint.
- To identify activities that produce carbon emissions.
- To calculate personal or household carbon footprint.
- To suggest methods for reducing carbon emissions.

#### **IMPORTANT: DO ONLY ONE ACTIVITY**

##### **Activity 1: Survey**

Conduct a survey among 10–15 students based on the following points and make a report on jindal sheets:

- How they travel to different places
- Electricity consumption
- Plastic usage
- Use of AC/cooler
- Tree plantation habits

Form a ‘**Carbon Footprint Score Card**’ for each student according to the following criteria.

## SURVEY TABLE

Activity	Daily Usage	Approx CO <sub>2</sub> Emission
Electricity use	5 units/day 2-4 units/day Less than 2 units/day	High Moderate Low
Bike/car travel	More than 10 km/day 10 km/day Less than 10 km/day	High Moderate Low
Public transport	Always Sometimes Never	Low Moderate High
Plastic use	Always Frequent Never	High Moderate Low
Tree plantation	Always Frequent Never	Helps reduce CO <sub>2</sub>
Use of AC/ Cooler	Always Frequent Never	High Moderate Low

### **Activity 2. Model + Working Project**

**Title: ‘Smart Green City with Low Carbon Footprint’**

#### **Model Components**

- Solar panels
- Windmill
- Rainwater harvesting
- Electric vehicles
- Green buildings
- Bicycle lanes

### **Activity 3. Digital/Presentation-Based Project**

**Title: ‘Carbon Footprint and Climate Change’**

#### **Prepare**

- PowerPoint presentation
- Short video
- Animated slides

## **Include**

- Causes
- Effects
- Statistics
- Solutions

## ❖ **SOCIAL SCIENCE (087)**

*Climate change has become one of the most serious global challenges of the 21st century. Rising temperatures, melting glaciers, extreme weather events, and declining biodiversity are linked to increasing greenhouse gas emissions. These emissions together form what is called a carbon footprint.*

*According to international climate reports, carbon emissions arise mainly from energy production, industries, transportation, agriculture, and household consumption. However, an important question remains:*

*Who should take the greatest responsibility for reducing carbon footprint—governments, industries, or individuals?*

### **Situation**

Imagine that your country aims to reduce carbon emissions significantly over the next decade.

Three groups present different viewpoints:

#### **Group A – Government Representatives**

They argue that governments have the greatest responsibility because they create policies and regulations.

#### **Examples:**

- Introducing renewable energy policies
- Expanding public transport
- Setting emission standards for industries
- Imposing carbon taxes
- Investing in clean technologies

They claim:

“Individual actions cannot create large-scale change without government intervention.”

#### **Group B – Industry Leaders**

Industries argue that businesses can reduce emissions through innovation and sustainable production.

### **Examples:**

- Using renewable energy in factories
- Reducing industrial waste
- Developing energy-efficient technologies
- Producing environmentally sustainable goods

They claim:

“Industries drive economic growth and have the resources to create large-scale environmental impact.”

### **Group C – Citizens and Environmental Groups**

Individuals argue that daily choices collectively influence carbon emissions.

### **Examples:**

- Using public transport
- Conserving electricity
- Reducing plastic use
- Choosing sustainable products

Following the principles of Reduce–Reuse–Recycle

They claim:

“Demand from consumers shapes industry and government decisions.”

### **Data for Analysis**

<b>Sector</b>	<b>Approximate Share in Global Greenhouse Gas Emissions</b>
<b>Electricity &amp; Heat Production</b>	34%
<b>Industry</b>	24%
<b>Agriculture &amp; Land Use</b>	22%
<b>Transport</b>	15%
<b>Buildings</b>	5%

### **Task Questions:**

- ✚ Identify which stakeholder (government, industries, or individuals) contributes most directly to reducing carbon emissions.
- ✚ Analyse the advantages and limitations of each group’s role.
- ✚ Use the data provided to support your argument.
- ✚ Suggest three practical measures each stakeholder should adopt.
- ✚ Conclude with your opinion: Who should bear the greatest responsibility and why?

**Write a 100–150 word policy recommendation to the government explaining how all three groups can work together to reduce carbon footprint.**

## ❖ **INFORMATION TECHNOLOGY (402)**

Apple's Initiative to Achieve a Near-Zero Carbon Footprint by 2030

**Prepare a PowerPoint Presentation covering the following points:**

- Meaning of Carbon Footprint
- Major Causes of Carbon Footprint
- Effects on the Environment
- How Technology Helps Reduce Carbon Footprint
- Mention how Apple is working toward making its products, supply chain, and operations carbon neutral by 2030.
- Preventive Measures
- Conclusion

### **Instructions:**

- Use relevant images, icons, and charts to make the presentation attractive.
- Keep the content concise and informative.
- Apply a professional and eco-friendly design theme.
- Use any presentation software like MS PowerPoint, Open Office Impress, Canva.