

**DAV PUBLIC SCHOOL, SECTOR-49, GURUGRAM  
HOLIDAY HOMEWORK  
CLASS VIII**

**Theme: “Go Green, Breathe Fresh”**

“Small Steps Towards Green Living Create a Better Tomorrow.”

**General Instructions**

1. Complete all work neatly in a separate holiday homework file/scrapbook.
2. Use colours, creativity, and eco-friendly materials wherever possible.
3. Paste relevant pictures/photographs neatly.
4. Submit the work after the summer vacation.
5. Maintain neat handwriting and proper presentation.

**SCIENCE**

**Theme: “Best Out of Waste – Bottle Plantation Project”**

**Task 1-** Plastic waste is harmful to the environment, but it can be reused creatively. In this activity, students will reuse used plastic bottles and convert them into mini planters to grow easily available medicinal plants.

**Aim:** To understand the importance of recycling plastic and the basic needs of plant growth.

**Materials Required**

- Used plastic bottle
- Soil/cocopeat
- Seeds or small sapling
- Water
- Scissors/cutter (with adult supervision)
- Decorative materials (optional)

**Activity Instructions**

1. Clean a used plastic bottle properly.
2. Cut the bottle creatively to make a planter.
3. Make small holes at the bottom for drainage.
4. Fill the bottle with soil or cocopeat.
5. Sow seeds or plant a small sapling.
6. Place the planter in sunlight.
7. Water the plant regularly and take care of it.

**Observation Task**

Observe the plant for 10–15 days and record:

- Date of planting
- Type of plant grown
- Changes observed
- Number of leaves/height of the plant
- Amount of sunlight and water given

### **Presentation**

- Decorate your bottle planter creatively.
- Paste 3–4 photographs showing different stages of plant growth in scrapbook.
- Prepare a small observation table.

**Task 2-** Design a portable Mobile Science Lab Kit using easily available resources from your surroundings. The dimensions of the kit should be 30 cm × 20 cm × 10 cm. Include materials such as straws, balloons, two candles of different sizes, thread, and tissues in your kit and arrange them systematically,

## **SOCIAL SCIENCE**

### **Activity: “Save Water, Grow More”**

Water is one of the most precious natural resources. Proper irrigation methods help in conserving water and improving plant growth. In this activity, students will explore different irrigation techniques and understand how water can be used wisely in gardening.

#### **Aim:**

- To understand the importance of irrigation in plant growth
- To learn water conservation methods
- To develop awareness about sustainable gardening practices

#### **Task:**

In the designed **Garden** explain the irrigation method used in it.

#### **Choose Any One Irrigation Method:**

- Drip Irrigation
- Sprinkler Irrigation
- Manual Watering
- Pipe Irrigation
- Rainwater Harvesting System

#### **Irrigation Method**

##### **1. Name of Irrigation Method**

- Write the name of the irrigation system used.

##### **2. Why is it Suitable?**

- Explain why the method is suitable for your garden.

##### **3. How Does it Save Water?**

- Describe how the irrigation method helps in water conservation.

#### **Observation Task**

Observe your garden for **7–10 days** and note:

- Water used daily
- Growth of plants
- Condition of soil



- Amount of sunlight received

### **Presentation Guidelines**

- Use neat handwriting
- Label all parts clearly
- Use colours and creativity
- Draw or paste pictures of irrigation methods
- Submit the work in a decorated file/folder

### **Learning Outcomes**

Students will:

- Understand irrigation techniques
- Learn water conservation
- Develop environmental awareness
- Promote sustainable living practices



## **ENGLISH**

### **1. NOTICE WRITING – “GREEN SCHOOL PLANTATION DRIVE”**

#### **Activity:**

You are **Rajat Arora/Ruhi Arora**, the Secretary of the Eco Club of DAV Public School, Gurugram. Draft a formal notice informing the students about a plantation drive organised by the Eco Club. Include all the necessary details within **50 words**.

### **2. POSTER MAKING WITH SLOGAN**

#### **Activity:**

Design an attractive and creative poster along with a suitable slogan based on environment-friendly themes.

**The following themes have been assigned according to roll numbers:**

- Roll Nos. 1–8: Recycling Habits
- Roll Nos. 9–16: Water Conservation
- Roll Nos. 17–24: Plantation Drives
- Roll Nos. 25–32: Reusing Household Waste
- Roll Nos. 33 onwards: Avoiding Single-Use Plastic

## **MATHEMATICS**

**Theme: Go Green, Breathe Fresh**

#### **Activity Name: “Maths in Bottle Plantation Project”**

Plastic waste can be reused creatively instead of harming the environment. In this activity, students will recycle used plastic bottles to create mini planters and use Mathematics to observe, measure, compare, and represent plant growth data.

**Aim:**

To apply mathematical concepts in real-life situations by measuring plant growth, comparing data, and understanding the importance of recycling through a plantation activity.

**Observation Table**

Day/Date	Plant Height (cm)	Number of Leaves	Water Given (ml)	Hours of Sunlight	Changes Observed
Day 1					
Day 3					
Day 5					
Day 7					
Day 9					

**Mathematical Tasks**

1. Find the total growth of the plant in 15 days.
2. Calculate the average plant growth.
3. Compare maximum and minimum height.
4. Identify the day with highest growth.
5. Represent the data using:
  - Bar Graph
  - Line Graph
6. Estimate the total water used during the observation period.

**Creative Presentation**

- Decorate the bottle planter creatively.
- Paste 3–4 photographs showing different stages of plant growth.
- Attach the observation table and graph neatly.

**Reflection Question**

Write a short paragraph on:

**“How does Mathematics help us understand plant growth and environmental conservation?”**

**Skills Developed**

- Observation Skills
- Measurement Skills
- Data Handling
- Logical Thinking
- Environmental Awareness
- Creativity and Responsibility

**HINDI**

**गतिविधि**

एक पौधे को पेड़ बनाने में बहुत सारी चीज़ों की भूमिका होती है; जैसे बीज, हवा, पानी, धूप आदि।

इस बात को ध्यान में रखते हुए कल्पना कीजिए कि यदि एक नन्हा पौधा जिस मिट्टी में उसे लगाया या बोया जा रहा है, उससे बातचीत करता तो वह क्या-क्या कहता?

**कार्य:**

मिट्टी और पौधे के बीच हुई बातचीत को **संवाद** के रूप में लिखिए।

## SANSKRIT

संस्कृत-गृहावकाश-कार्यम्

वृक्षस्य चित्रनिर्माणं कृत्वा तस्मिन् चित्रे वृक्षस्य अङ्गानां नामानि लिखन्तु ।

## INFORMATION AND COMMUNICATION TECHNOLOGY

**Theme:** “Go Green, Breathe Fresh”

**Activity:** E-BROCHURE DESIGN

**Aim:**

Create an attractive e-brochure to spread awareness about protecting the environment.

**Instructions:**

Design an e-brochure using Canva.

1. Include:
  - Creative title and slogan
  - Environmental problems
  - Ways to keep surroundings green and clean
  - Eco-friendly habits
  - Relevant pictures/icons
2. Use a neat, green-themed layout with proper headings.
3. Download the brochure as a PDF.
4. Submit a coloured printout.

**The following themes have been assigned according to roll numbers:**

**Roll Nos. 1–8:** Energy Conservation at Home

**Roll Nos. 9–16:** Water Conservation

**Roll Nos. 17–24:** Afforestation

**Roll Nos. 25–32:** Waste Segregation & Composting

**Roll Nos. 33 onwards:** Carbon Footprint Reduction

