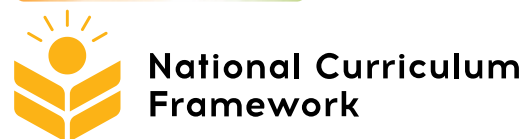


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**Toolkit for Sustainability Activities**  
**Vol- 11<sup>th</sup> - 12<sup>th</sup> | July 2026-27**

# MODEL DEMONSTRATION

## STEPS TO FOLLOW

- 1 Gather your waste materials
- 2 Watch informational video to attempt the quiz
- 3 Watch activity video to attempt the activity
- 4 Complete the activity
- 5 Click photo & Upload on GoSharpener using the GoSharpener Calculator



# EVIDENCE REPORTING

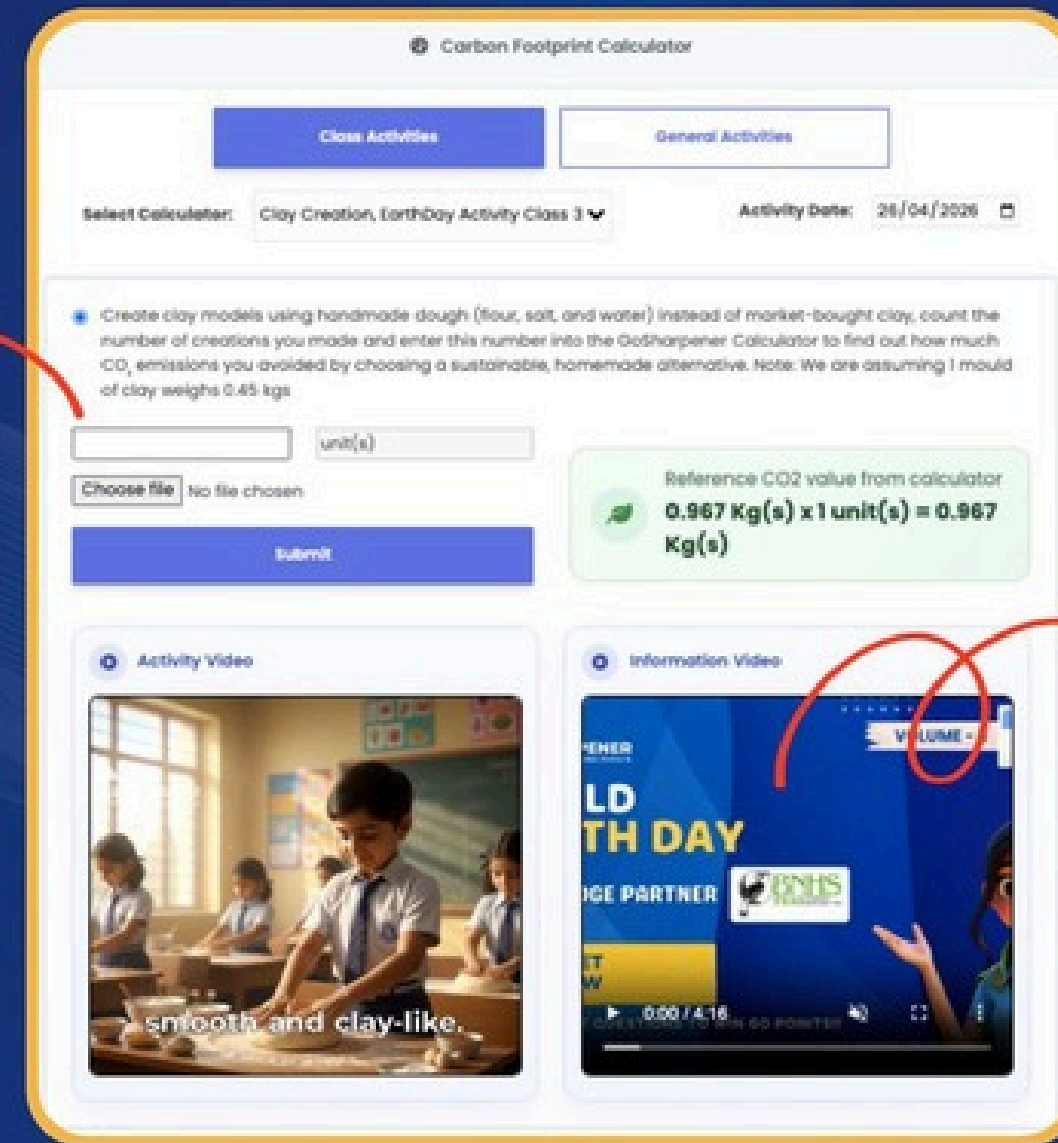
## STEPS TO FOLLOW

- 1 Download the App
- 2 Login
- 3 Select, "GoPoints Activity"
- 4 Upload Photo
- 5 Tag Class
- 6 Get Certificate

## KNOWLEDGE PARTNER-



## How to Upload Your Activity on GoSharpener



Enter the required Quantity/Unit, then upload the relevant file

Click on "Activity Video"/"Information video" to learn how to perform the activity.

Month	Date	Day	Grade	References	Sustainable Practices	Name of the Activity	SDG
July	26	International Day for the cons. of Mangrove Ecosystem	11	SEWA Project 6: Environment Conscious Citizens	Sustainable Actions	Root Barrier Flood Defender	15 LIFE ON LAND
	28	World Nature Conservation Day	11	Project/ Activity 13: Acquaintance with Common Pests and Diseases of Plants and Use of Simple Chemicals and Plant Protection Equipment	Sustainable Actions	Natural Chilli-Garlic Pest Repellent	15 LIFE ON LAND

### INSTRUCTIONS FOR CONDUCTING ACTIVITY INTERNATIONAL DAY FOR THE CONS. OF MANGROVE ECOSYSTEM

[Info Video](#)

[Activity Video](#)

#### Root Barrier Flood Defender

**Materials Required** – Dry twigs, Coconut coir, Jute string, Small stones, Tray, Soil, Water

#### Step-by-Step Instructions

1. Root Barrier Flood Defender helps prevent soil erosion and reduces runoff during heavy rain or flooding.
2. Students create a flood channel using loose soil to demonstrate how water can wash away unprotected soil.
3. A natural root-like barrier is built using dry twigs, coconut coir, jute string and stones to slow water flow.
4. Water is poured through the channel to observe soil movement, sediment trapping and barrier stability.
5. Students improve the design by changing the number of twigs, root spacing and barrier width for better protection.
6. The completed Flood Defender can be installed near slopes, garden beds or loose soil areas to protect young plants and retain nutrients in the soil.

**Evidence** – Student displays the completed Root Barrier Flood Defender showing trapped soil, reduced erosion and effective water flow control using natural materials.

### INSTRUCTIONS FOR CONDUCTING ACTIVITY WORLD NATURE CONSERVATION DAY

[Info Video](#)

[Activity Video](#)

#### Natural Chilli-Garlic Pest Repellent

**Materials Required** – 4–5 green chillies, 4–5 garlic cloves, Water, Bowl, Spoon or mortar and pestle, Strainer, Reused spray bottle

#### Step-by-Step Instructions

- 1: Explore common plant pests and discuss eco-friendly alternatives to chemical pesticides.
- 2: Crush green chillies and garlic, then mix them with water to prepare a concentrated natural extract.
- 3: Filter the mixture and transfer the liquid into a reused spray bottle.
- 4: Apply the natural repellent to selected plants preferably in morning hours and observe how it coats the leaves.
- 5: Monitor pest activity, plant health and leaf condition over several days.
- 6: Understand how natural pest-management methods can support sustainable gardening and environmental conservation.

**Evidence** – Put up a photograph with your Natural Chilli-Garlic Pest Repellent spray bottle.

Month	Date	Day	Grade	References	Sustainable Practices	Name of the Activity	SDG
July	26	International Day for the cons. of Mangrove Ecosystem	12	SEWA Project 6: Environment Conscious Citizens	Sustainable Actions	Soil Life Shield	15 LIFE ON LAND
	28	World Nature Conservation Day	12	Project/ Activity 13: Acquaintance with Common Pests and Diseases of Plants and Use of Simple Chemicals and Plant Protection Equipment	Sustainable Actions	Natural Plant Fertilizer Spray	15 LIFE ON LAND

## INSTRUCTIONS FOR CONDUCTING ACTIVITY INTERNATIONAL DAY FOR THE CONS. OF MANGROVE ECOSYSTEM

[Info Video](#)

[Activity Video](#)

### Soil Life Shield

**Materials Required:** Garden soil or potting soil, Dry leaves, Coconut coir or coco peat, Small twigs or dried plant stems.

**Equipment & Tools:** Two shallow trays or containers, Watering can or spray bottle, Measuring cup or beaker for equal water amounts, Spoon or small gardening trowel, Labels or sticky notes, Marker pens.

**Observation & Recording Materials:** Images/posters of healthy soil and soil erosion (optional), Mangrove ecosystem reference pictures (optional), Camera or mobile phone for activity photographs.

**Safety & Cleanliness Items:** Disposable gloves (optional), Apron or old newspaper to protect tables, Cloth or tissue paper for cleaning spills, Dustbin or compost bin for natural waste

### Step-by-Step Instructions

- 1: Explore how healthy soil supports ecosystems and why erosion threatens soil quality.
- 2: Prepare two soil trays and label them for covered and uncovered soil comparisons.
- 3: Create a Soil Life Shield using dry leaves, coconut coir and twigs on one tray.
- 4: Simulate rainfall and observe differences in water retention, runoff and soil stability.
- 5: Compare the condition of covered and uncovered soil and record observations.
- 6: Understand how natural ground cover supports carbon storage, reduces erosion and mimics the protective functions of mangrove ecosystems.

**Evidence -** Take a creative photograph with your completed Soil Life Shield and upload it on the GoSharpener Platform using the GoSharpener Calculator.

## INSTRUCTIONS FOR CONDUCTING ACTIVITY WORLD NATURE CONSERVATION DAY

[Info Video](#)

[Activity Video](#)

### Natural Plant Fertilizer Spray

**Materials Required:** Bowl, Spoon, Reused spray bottle

**Ingredients:** 1 cup milk (Skimmed or low fat), 2 cups of clean water.

**Equipment & Tools:** Measuring cups, Mixing bowl or container, Spoon or stirrer, Funnel (optional, for easy pouring), Reused spray bottles with working nozzles, Labels or recycled paper tags, Marker pens.

**Observation Materials:** Healthy plant leaves, Leaves showing fungal infection or spots, Potted plants for spraying, Observation notebook or worksheet, Pen or pencil.

**Safety & Cleanliness Items:** Tissue paper or cloth for cleaning spills, Disposable gloves (optional), Tray or newspaper to protect tables.

### Step-by-Step Instructions

- 1: Explore common fungal diseases in plants and identify signs of infection on leaves.
- 2: Prepare a diluted 1 part milk to 2 parts of water solution to support eco-friendly plant care.
- 3: Transfer the solution into a reused spray bottle and prepare it for use.
- 4: Limit milk treatment to once every 2 to 4 weeks.
- 5: Monitor leaf health, fungal growth and overall plant condition over several days.
- 6: Understand how natural alternatives can support sustainable gardening while reducing dependence on synthetic fungicides.

**Evidence:** Put up a photograph with your Natural Plant Fertilizer Spray.

# INFOGRAPHICS



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SHARPENER  
The School Student Network

July  
1-7

Van Mahotsav

Plant Trees, Protect Life, Preserve Earth!

15 LIFE ON LAND  
13 CLIMATE ACTION

Started in India in 1950, Van Mahotsav promotes tree plantation and environmental awareness. A single mature tree can absorb up to 22 kg of carbon dioxide each year and help improve air quality.

### Here's How You Can Help:

Log in to the GoSharpener Platform and report your sustainable action today!

#VanMahotsav26



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SHARPENER  
The School Student Network

July  
11

World Population Day

Sustainable Choices for a Balanced Future!

11 SUSTAINABLE CITIES AND COMMUNITIES  
12 RESPONSIBLE CONSUMPTION AND PRODUCTION

The global population has crossed 8 billion, increasing pressure on food, water, energy and natural resources. Sustainable choices are important to ensure a balanced and healthy future for all.

### Here's How You Can Help:

Log in to the GoSharpener Platform and report your sustainable action today!

#PopulationDay26

# INFOGRAPHICS



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July  
**12**



**International Day  
of Hope**

Hope Creates Stronger Communities  
and Brighter Futures!

**3** GOOD HEALTH  
AND WELL-BEING

**16** PEACE, JUSTICE  
AND STRONG  
INSTITUTIONS

Hope inspires positive action and stronger communities.

Studies show that people with hopeful mindsets are more likely to contribute towards social and environmental change and overall well-being.

Here's How You Can Help:

Log in to the platform and report your sustainable action today!

#DayofHope26



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SHARPENER  
The School Student Network

July  
**28**



**World Nature  
Conservation Day**

Protect Nature Today for a Greener  
Tomorrow!

**15** LIFE  
ON LAND

**13** CLIMATE  
ACTION

India is home to 7-8% of the world's biodiversity despite covering only 2.4% of Earth's land. Conserving forests, wildlife and natural resources is essential for a sustainable future.

Here's How You Can Help:

Log in to the platform and report your sustainable action today!

#NatureConservationDay26

# SHARP ACTION

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