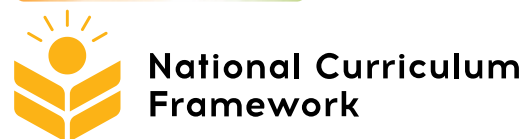


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A Product of GoSharpener
Toolkit for Sustainability Activities
Vol- 9 & 10 | July 2026-27

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 Upload photo using the Gosharpener Calculator
- 4 Get Certificate

KNOWLEDGE PARTNERS-



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	NCERT/Kaushal Vikas/CBSE/SEWA Mapping	Chapter / Part	Activity/ Project No.	Name of the Activity	SDG
July	26	International Day for the cons. of Mangrove Ecosystem	9	CBSE Acad-28/2024: Celebration of Int. Day for the Cons. of the Mangrove Ecosystem, SEWA Project 6: Environment Conscious Citizens	Kaushal Vikas	1	Agricultural Practices, Soil testing and amendment	Build a Blue Carbon Soil Lab	15 LIFE ON LAND
	28	World Nature Conservation Day	9	CBSE Acad-67/2025: Swacchhata Pakhwada, SHVR 2025-26: Tree Plantation - Ek Ped Maa Ke Naam, SEWA SDG 12 Project 7: Reduce, Recycle, Reuse	Kaushal Vikas	1	Agricultural Practices, Seed selection	Neem Seedling Nursery	15 LIFE ON LAND

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

[Info Video](#)
[Activity Video](#)

Build a Blue Carbon Soil Lab

Material Required

- Soil from different areas, Transparent jars/bottles, Water, Spoon, pH strips (if available), Salt, Waste containers/plastic bottles, Compost or dry leaf compost, Scrap paper labels

Step-by-Step Instructions

1: Collect Soil Samples

Student collects soil from 2-3 places such as:

- Garden soil
- Playground edge
- Near plants/tree area

Avoid areas with waste, chemicals or recently fertilised areas.

2. Prepare Soil Test Jar

- Put soil into a transparent jar.
- Add water and shake well.
- Let it settle for several hours.

Student observes the layers:

- Sand settles at the bottom
- Silt settles in the middle
- Clay settles on the top

Important Observation: If your jar shows more silt and clay than sand, the soil is more similar to the muddy conditions where mangroves naturally grow. These fine sediments help retain water and nutrients.

3: Check Soil pH

- Mix a small amount of soil with water in a bowl.
- Dip the pH strip into the mixture and compare the colour with the pH chart.
- Record whether the soil is Acidic, Neutral or Basic

Important Observation: Mangroves generally grow best in slightly acidic to neutral soils (pH 6.0-7.5).

Interpret Your Result:

- pH 6.0-7.5: Suitable for supporting mangrove growth.
- Below pH 6.0: Soil is more acidic and may reduce nutrient availability.

- Above pH 7.5: Soil is more alkaline and may make some nutrients harder for plants to absorb.
- Student identifies whether their soil falls within the mangrove-friendly pH range.

4. Create a Salinity Challenge

Fill two transparent containers:

- Container A: Normal water
- Container B: Salt water (1 teaspoon salt mixed in water)
- Add equal amounts of tested soil to both containers.

Observe:

- How quickly the soil settles
- Changes in texture or clumping
- Differences between normal and salt water

Important Observation: Soil may settle or clump differently in salt water. Mangroves are specially adapted to grow in saline coastal environments where many other plants cannot survive.

5: Prepare a Blue Carbon Nursery Mix

Student chooses the soil sample that:

- Contains more silt and clay than sand (from Step 2) and has a pH between 6.0-7.5 (from Step 3), if pH strips are available.
- Student improves the selected soil by adding: 1. Compost, 2. Dry leaf compost, 3. Organic matter
- Mix thoroughly and fill waste containers.

Important Observation: Organic matter improves soil quality, increases water retention and helps store carbon in the soil. Healthy soils support stronger plant growth and act as natural carbon sinks.

Note: Do NOT Plant Yet. These prepared containers will be used during the Nature Conservation Day activity for seed testing, seed selection and nursery establishment.

Evidence Reporting: Student displaying the prepared Blue Carbon Nursery Mix containers filled with tested and improved soil.

INSTRUCTIONS FOR CONDUCTING ACTIVITY WORLD NATURE CONSERVATION DAY

[Info Video](#)
[Activity Video](#)

Neem Seedling Nursery

Material Required

- Prepared Blue Carbon Nursery Mix containers (from Mangrove Ecosystem Activity), Neem seeds (You can find neem seeds at local plant nurseries, traditional raw herb shops (Pansari stores) or online e-commerce platforms.), Water, Transparent bowl/container.

Step-by-Step Instructions

1. Perform Neem Seed Selection Test

- Fill a bowl with water.
- Place the Neem seeds in the water.

Observe:

- Seeds that sink are generally healthy and suitable for sowing.
- Seeds that float are often less viable and are generally not selected for sowing.
- Student selects only the healthy Neem seeds for planting.

2: Discover the Guardian Tree

Student learns how Neem trees help nature by:

- Providing shade and cooling surroundings
- Supporting birds, insects and other living organisms
- Improving local biodiversity
- Absorbing carbon dioxide from the atmosphere
- Contributing to greener and healthier communities

3: Establish the Guardian Neem Seedling Nursery

- Take the Blue Carbon Nursery Mix container prepared during the Mangrove Ecosystem Activity.
- Make a small hole about 1-2 cm deep in the centre of the soil.
- Place one healthy Neem seed selected through the seed selection test into the hole.

- Cover it lightly with soil.
- Water gently until the soil is moist but not waterlogged. Student sows the selected Neem seed directly into the restoration-ready Blue Carbon Nursery Mix prepared earlier, creating a Neem Seedling Nursery for germination and early growth.

- **Important Observation:** The Blue Carbon Nursery Mix provides organic matter, moisture retention and nutrients that support healthy root development and seedling establishment.
- The container serves as a temporary nursery for germination and early growth. Once the seedling develops sufficient roots and leaves, it can be transferred to a larger pot or planted in a suitable outdoor location.

4. Record Your Conservation Action

- Student notes:**
1. Date of sowing,
 2. Number of Neem seeds sown
 3. Expected germination period (typically 1-3 weeks)
 4. Student can continue monitoring seedling growth over the following weeks.

Evidence: Student displaying the completed Neem Seedling Nursery container with a selected Neem seed sown in the prepared Blue Carbon Nursery Mix.

Month	Date	Day	Grade	References	NCERT/Kaushal Bodh/CBSE/SEWA Mapping	Chapter / Part	Activity/ Project No.	Name of the Activity	SDG
July	26	International Day for the cons. of Mangrove Ecosystem	10	CBSE Acad-28/2024: Celebration of Int. Day for the Cons. of the Mangrove Ecosystem, SEWA Project 6: Environment Conscious Citizens	SEWA Project		Project/ Activity 13: Acquaintance with Common Pests and Diseases of Plants and Use of Simple Chemicals and Plant Protection Equipment	Neem Protection Spray	15 LIFE ON LAND
	28	World Nature Conservation Day	10	CBSE Acad-67/2025: Swacchhata Pakhwada, SHVR 2025-26: Tree Plantation - Ek Ped Maa Ke Naam, SEWA SDG 12 Project 7: Reduce, Recycle, Reuse	SEWA Project		Project - 7: Reduce, Recycle, Reuse (most important 3R's) and Now Respect Project Focus – Conservation, Caring for the Planet, Segregation of garbage	Tree Life Blanket	15 LIFE ON LAND

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

- [Info Video](#)
- [Activity Video](#)

Neem Protection Spray

Material Required

- Neem leaves or neem powder, Water, Reused spray bottle

Step-by-Step Instructions

1 Prepare the Extract

- Crush neem leaves and mix with water.
- Allow the mixture to soak for 15–20 minutes.

2. Filter the Solution

- Strain the mixture to remove solid particles.
- Collect the liquid extract.

3. Prepare the Spray

- Pour the filtered solution into a reused spray bottle.
- Label it as “Natural Neem Protection Spray.”

Important Observation: Neem contains natural compounds that help deter many common plant pests without introducing harmful chemicals into the environment.

4. Demonstrate Safe Plant Protection Practices

- Student demonstrates safe handling and use of the Neem Protection Spray under guidance of an elder.

Student may use:

- Hand sprayer
- Gloves (optional)
- Face mask (if available)

Student practices:

- Use only the required amount of spray
 - Avoid spraying during strong winds
 - Wash hands after handling plant treatments
 - Never spray near eyes or mouth
- ##### 5. Apply and Observe
- Student lightly sprays Neem Protection Spray on selected plant leaves.

Observe:

- Areas showing pest damage
- Leaf condition before spraying
- Overall plant health
- Student reflects on how natural plant care supports healthier ecosystems.

Evidence: Student holding their prepared Neem Protection Spray in a transparent bottle, showing its natural yellow to brownish-green colour made from neem leaves or neem powder.

INSTRUCTIONS FOR CONDUCTING ACTIVITY WORLD NATURE CONSERVATION DAY

- [Info Video](#)
- [Activity Video](#)

Tree Life Blanket

Material Required

- Fallen dry leaves, Dry grass, Coconut husk pieces/coir (if available), Small twigs, Existing tree or large plant in the school campus or nearby safe green area, Gloves

Step-by-Step Instructions

1. Collect Natural Fallen Materials

Student collects naturally fallen materials:

- Dry leaves
- Dry grass
- Coconut husk fibres
- Small twigs

Do not pluck fresh leaves or damage living plants.

2. Observe the Tree Base

- Choose an existing tree or large plant in the school campus or nearby safe green area.

Observe:

- Exposed soil
- Dry patches
- Existing leaf litter
- Signs of erosion or soil cracking

Student identifies why bare soil loses moisture faster.

3. Create the Tree Life Blanket

- Wear gloves and gather all collected materials.
- Spread a base layer of dry leaves and dry grass evenly around the base of the tree.
- Add small twigs and coconut coir pieces on top to hold the layer in place.

- Gently press the materials so they form a loose, mat-like natural cover (not tightly packed).
- Create a circular layer about 3–5 cm thick.
- Leave a small gap around the trunk for airflow.
- Student creates a protective natural mulch layer that mimics the forest floor.

4. Water the Area

Lightly water the Tree Life Blanket.

- Observe how it helps retain moisture and protect the soil surface.

Important Observation: In natural forests, fallen leaves are not removed. They form a protective layer that:

- Reduces water evaporation
- Prevents soil erosion
- Supports soil organisms
- Slowly returns nutrients to the soil
- Improves overall ecosystem health

Evidence: Student displaying the completed Tree Life Blanket created using naturally fallen materials.

EXPERIENTIAL SESSIONS FOR ECO FRIENDLY SCHOOL CAMPUS

HANDS ON LEARNING

- 1 Awareness on E-Waste Management (6th to 8th)
- 2 Healthy Eating Habits (3rd to 5th)
- 3 Awareness on packaged food (6th to 8th)
- 4 Menstrual Hygiene & Wellness (5th to 8th)
- 5 Oral Hygiene (1st to 3rd)
- 6 Waste to Treasure (6th to 9th)
- 7 Financial Literacy & Planning (11th to 12th)

Awareness on E-Waste Management



Healthy Eating Habits



Clean Air & Green Air



Oral Hygiene



Menstrual Hygiene & Wellness



Financial Literacy & Planning



EXPERIENTIAL FIELD VISITS FOR BUILDING POWER PROFILE

1 ICPE Plastics Recycling Warriors Contest 2026 – a plastic waste collection drive for *DELHI SCHOOLS.

- **Location:** Conducting in Delhi Schools, Ceremony venue TBD
- **Registration Deadline:** 15th June
- **Duration:** 1st July – 31st August 2026
- **Goal:** Promote recycling awareness & engage students in sustainability
- Top 5 schools will be felicitated
- **Registration Details:**
<https://docs.google.com/forms/d/e/1FAIpQLSf71rFPv2xnJggh-Hug4oKxT97jt8rJy7SQTUItHI92beeZ5A/viewform>



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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SHARPENER
The School Student Network

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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