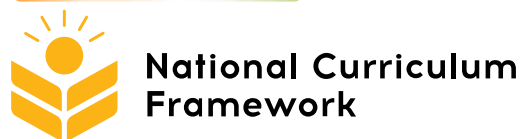




Aligned With



A Product of GoSharpener
Toolkit for Sustainability Activities
Volume 6 to 8 | 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

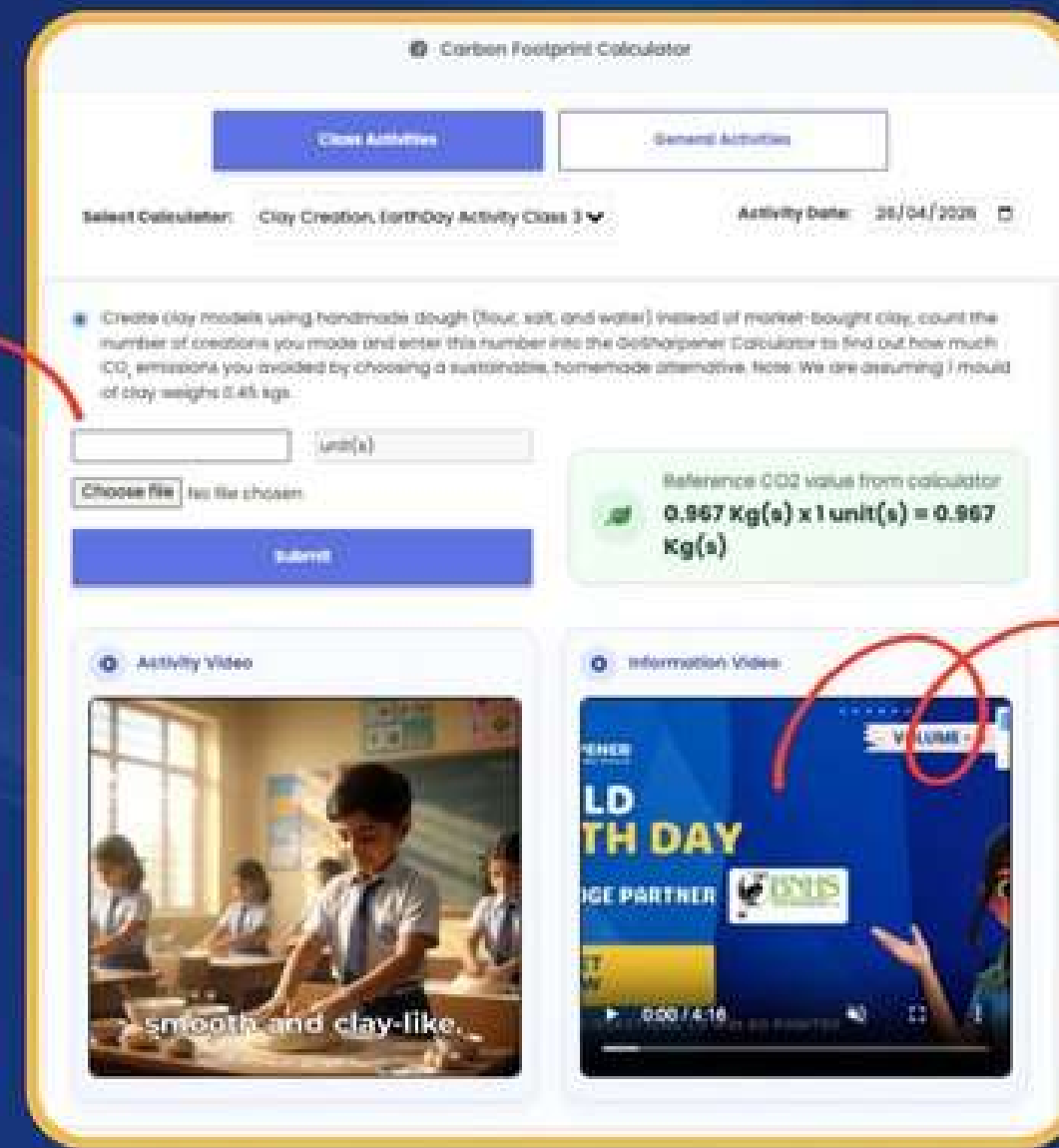
- 1 Download the App
- 2 Login
- 3 Upload Photo
- 4 Tag Class
- 5 Get Certificate

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	6	CBSE Acad-28/2024: Celebration of Int. Day for the Cons. of the Mangrove Ecosystem	Sustainable Actions	Recycled Mangrove Brochure	15 LIFE ON LAND 
	28	World Nature Conservation Day	6	NCERT - Science, Curiosity	Sustainable Actions	Marigold Grow Bag	15 LIFE ON LAND 

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

Name of Activity: Recycled Mangrove Brochure

Material Required

- (Only Waste or Reused Materials)
- Old newspapers or used worksheets
 - Scrap paper or old chart pieces
 - Old magazines for pictures (optional)
 - Broken crayons or leftover sketch pens
 - Thread or paper strips for binding
 - Glue stick (optional)
 - Child-safe scissors

Steps to be followed

1. Prepare the Recycled Brochure Base

- Each group folds used worksheets or old paper into three sections to create a simple brochure shape.
- Students may paste a thin layer of newspaper over the outer surface to create a textured recycled-paper effect.
- Students smooth the paper carefully so the brochure looks neat and strong.

2. Design the Brochure Sections

Students divide the brochure into simple information sections such as:

- What are Mangroves?
- Why Mangroves are Important
- Animals that Live in Mangroves
- Threats to Mangroves
- How We Can Protect Them

Students write:

- short sentences
- key facts
- small awareness messages.

Encourage: neat handwriting
short easy-to-read points
clear headings.

Students write:

- short sentences
- key facts
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Encourage:

- neat handwriting
- short easy-to-read points
- clear headings.

3. Add Visual Elements

Students decorate the brochure using reused and creative materials.

They may draw or paste visuals such as:

- Mangrove trees with roots in water
- Fish and crabs living near roots
- Birds resting in mangroves
- Pollution affecting marine life
- Coastal protection scenes.

Students can creatively use:

- magazine cut-outs
- newspaper textures
- scrap paper borders
- broken crayon shading
- leaf prints or small natural decorations.

Evidence: Take a photo holding your completed Recycled Mangrove Brochure and upload it on the GoSharpener Platform using the GoSharpener Calculator.

 Info Video

 Activity Video

INSTRUCTIONS FOR CONDUCTING ACTIVITY
WORLD NATURE CONSERVATION DAY

Name of Activity: Marigold Grow Bag

Material Required

(Only Reused or Eco-Friendly Materials)

- Old newspaper sheets, Marigold sapling, Soil or compost, Small spoon or hands for filling soil, Water in a small container, Jute thread (optional), Scrap paper for plant friendship tags, Pencil or sketch pens

Step-by-Step Instructions

1. Observe the Marigold Sapling

Before planting, students carefully observe the sapling.

Students look closely at:

- the roots, the stem, the leaf shape, the veins on the leaves, the colour and texture of the plant.

Students may gently touch the leaves and notice their smell or texture.

2. Record Plant Observations

Students record simple observations in their notebook.

Examples:

- Root colour
- Root size
- Leaf shape
- Type of venation seen
- Smell or texture of leaves.

Students may also draw:

roots
leaves
venation patterns.

This helps students observe plants like young nature scientists.

3. Make the Newspaper Grow Bag

Take 2-3 newspaper sheets.

Roll them around a bottle or cylindrical object to form a cup shape.

Fold the bottom inward carefully to close the base.

Gently remove the bottle shape.

Students now have a biodegradable newspaper grow bag made completely from reused paper.

Fill about three-fourths of the bag.

• Optional:

Tie lightly with jute thread for extra strength.

4. Fill the Grow Bag

Add soil or compost into the newspaper grow bag.

Fill about three-fourths of the bag.

Students gently press the soil so the bag remains stable.

5. Plant the Marigold Sapling

Make a small hole in the soil using fingers.

Place the marigold sapling carefully into the hole.

Cover the roots softly with soil.

Press lightly around the plant base.

Students should handle the roots gently to avoid damaging the plant.

6. Water the Plant Point

Pour a small amount of water gently near the roots.

Avoid overwatering.

Students observe how the soil absorbs water and supports the plant.

7. Create a Plant Friendship Tag

Students create small reused paper tags and write the plant name.

Examples:

- “My Marigold Friend”
- “Little Sunshine Marigold Plant”
- “My Marigold Flower Buddy”

Tie or place the tag near the grow bag.

Evidence: Take a bright photo with your planted Marigold Grow Bag and upload it on the GoSharpener Platform using the GoSharpener Calculator.

 Info Video

 Activity Video

Month	Date	Day	Grade	References	Sustainable Practices	Name of the Activity	SDG
July	26	International Day for the cons. of Mangrove Ecosystem	7	CBSE	Sustainable Actions	Environmental Threat Model	15 LIFE ON LAND
	28	World Nature Conservation Day	7	Kaushal Bodh	Sustainable Actions	Natural Leheriya Handkerchief	12 RESPONSIBLE CONSUMPTION AND PRODUCTION

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

Name of Activity: Environmental Threat Model

Material Materials

- (Only Reused & Waste Materials)
- Old cardboard or cartons, Newspaper sheets, Bottle caps, Fabric scraps, Old wires, Used packaging, Magazine cut-outs, Dry leaves or twigs, Egg cartons, Waste paper rolls, Glue stick (non-toxic), Child-safe scissors

Step-by-Step Activity Flow

1. Investigate the Threat: Climate Change

Students first explore and discuss:

- What is climate change?
- What causes global warming?
- How do rising temperatures affect mangroves?
- Which animals and people depend on mangroves?
- What can humans do to reduce climate damage?

Students focus specifically on:

- rising temperatures
- sea-level rise
- extreme heat
- stronger coastal storms
- habitat loss.

2. Plan the Model Design

Students sketch a rough layout of their climate change model in their notebook.

Example Model Elements:

- hot blazing sun
- shrinking mangrove forests
- dry cracked coastal land
- rising sea levels
- melting ice areas
- disturbed marine life
- animals searching for water
- damaged coastal ecosystems.

3. Build the Base Structure

Use old cardboard or carton packaging as the base platform.

Students may:

- cover areas using newspaper
- create land and ocean sections
- layer magazine paper for texture

- create raised and flooded coastal areas. This becomes the foundation of the climate change scene.

4. Create the Global Warming Scene

Students creatively transform waste materials into climate-related elements.

Global Warming Ideas:

- red/orange paper as rising heat waves
- cotton or newspaper smoke clouds
- melting icebergs using crumpled white paper
- cracked dry land using torn brown cardboard
- blue paper strips showing rising sea levels
- sun made from old magazine cut-outs
- wilting plants using dry leaves
- factories using waste paper rolls
- damaged mangrove roots using twigs and cardboard.

Students are encouraged to reuse as many discarded materials as possible while making the model visually impactful and realistic.

5. Show the Impact on Living Things

Students now add the ecological and emotional impact.

Models should clearly show:

- marine animals losing habitat
- disturbed coastal ecosystems
- shrinking mangrove forests
- disappearing biodiversity
- communities affected by climate disasters
- water scarcity and damaged environments.

This makes the model meaningful, thoughtful and awareness-driven rather than only decorative.

6. Add Awareness Labels

Students create small reused paper labels and place them around the model.

Example Labels:

- "Global Warming is Rising"
- "Mangroves Under Threat"
- "Sea Levels Are Increasing"
- "Protect Coastal Ecosystems"
- "Animals Losing Homes"
- "Climate Change Affects Everyone"
- "Save Mangroves, Save Our Future"

Evidence: Take a powerful photo with your completed Mangrove Climate Change Threat Model and upload it on the GoSharpener Platform using the GoSharpener Calculator.

Info Video

Activity Video

INSTRUCTIONS FOR CONDUCTING ACTIVITY
WORLD NATURE CONSERVATION DAY

Name of Activity: Natural Leheriya Handkerchief

Material Required

(Eco-Friendly & Reusable Materials Only)

- Old light-coloured cotton fabric/handkerchief/dupatta/shirt pieces, Beetroot, Turmeric, Tea or coffee, Spinach leaves, Onion peels / orange peels / marigold petals (optional), Bowls or containers, Water, Salt or vinegar (natural dye fixer), Rubber bands or cotton thread, Gloves, Aprons, Old newspaper sheets for desk protection, Child-safe scissors (if fabric cutting is needed)

Safety Instructions

- Wear gloves and aprons while using dyes
- Work in a well-ventilated area
- Handle scissors carefully
- Use only warm dye solutions prepared under teacher/elder supervision
- Clean the workspace after the activity.

Step-by-Step Activity Flow

Part 1 — Preparing the Fabric

1. Wash the Fabric

Take an old light-coloured cotton cloth piece.

Wash it properly to remove:

- dirt
- starch
- dust.

Allow it to dry slightly until damp.

Part 2 — Preparing Natural Dyes

Make the Natural Dye

(Teacher/Elder Supervision Required)

Prepare different dyes using:

- Beetroot → pink/red
- Turmeric → yellow
- Tea/Coffee → brown
- Spinach → soft green shades.

Part 3 — Creating the Leheriya Pattern

Fold the Fabric Diagonally

- Spread the fabric flat on the desk.
- Fold one corner diagonally again and again until the fabric becomes a long narrow strip.
- The folded cloth now resembles a flowing ribbon or water wave.
- Tie the Fabric
- Tie cotton thread or rubber bands at different distances along the folded strip. Keep some spaces narrow and some spaces wide.
- These tied sections will later create flowing Leheriya wave patterns.

Part 4- Dyeing the Fabric

1. Dip Into Natural Dye

Dip different sections of the tied fabric into different natural dyes.

Students may create:

- yellow wave patterns with turmeric
- pink flowing stripes with beetroot
- green nature-inspired shades with spinach leaves
- earthy brown gradients with tea/coffee.

Some tied sections remain undyed to create beautiful contrast.

2. Dry the Fabric

- Keep the dyed fabric aside to dry naturally. Once dry, carefully remove the threads or rubber bands. This becomes the magical reveal moment.

Part 5 — Create the Final Product

Convert Into a Useful Product

Students may transform their dyed fabric into a handkerchief.

Evidence: Take a vibrant photo with your completed Natural Leheriya Handkerchief and upload it on the GoSharpener Platform using the GoSharpener Calculator.

Info Video

Activity Video

Month	Date	Day	Grade	References	Sustainable Practices	Name of the Activity	SDG
July	26	International Day for the cons. of Mangrove Ecosystem	8	CBSE Acad-28/2024: Project Shunya	Sustainable Actions	Mangrove Flood Protection Model	
	28	World Nature Conservation Day	8	Kaushal Bodh	Sustainable Actions	Deep Water Culture (DWC) Hydroponic System	

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

Name of Activity: Mangrove Flood Protection Model

Material Required

(Only Reused & Eco-Friendly Materials)

- Old cardboard or cartons, Newspaper sheets, Bottle caps, Fabric scraps, Dry twigs, Jute thread or coconut fibre, Used paper rolls, Magazine paper, Glue stick (non-toxic), Child-safe scissors, Sketch pens or crayons

Step-by-Step Activity

1. Understand the Flood Problem

Students begin by discussing:

- How floods affect coastal regions
- How flooding damages homes and ecosystems
- How mangrove roots help slow water movement and protect land.
- Building the Mangrove Flood Protection Model

2. Create the Base Structure

Use old cardboard or carton packaging as the base.

- Students create:
- coastline areas
- water sections
- houses
- mangrove zones.
- Newspaper and magazine sheets can be layered to add texture and landscape effects.

3. Build the Mangrove Protection Zone

Students create dense mangrove forests using:

- twisted newspaper roots
- dry twigs for tree trunks
- jute thread or coconut fibre for root systems

- green magazine paper for leaves.
 - The mangrove area should appear strong, interconnected and protective.
4. Show How Mangroves Reduce Flood Impact
- Students create moving wave strips using folded blue newspaper.
 - The waves should appear strong in the open water area and gradually slow down near the mangrove roots.
 - This creates a visual demonstration of how mangroves reduce flood impact and protect coastal land.

5. Add Safe Community Features

Students include:

- safe houses
- fish and marine life
- birds
- healthy land
- cleaner water.

Students may also add labels such as:

- “Mangroves Protect Coasts”
- “Roots Reduce Flood Damage”
- “Protect Coastal Ecosystems”
- “Nature’s Flood Barrier”.

Evidence: Take a creative photo with your completed Mangrove Flood Protection Model and upload it on the GoSharpener Platform using the GoSharpener Calculator.

▶ Info Video

▶ Activity Video

INSTRUCTIONS FOR CONDUCTING ACTIVITY
WORLD NATURE CONSERVATION DAY

Name of Activity: Deep Water Culture (DWC) Hydroponic System

Material Required

(Prefer Reused & Easily Available Materials)

- Recycled bucket/water tub / large container (10–15 L), Thick cardboard sheet OR reused sturdy packaging sheet, Small reused paper cups/tea cups, Child-safe scissors, Pencil for marking holes, Cocopeat / coco-coir / sand, Seeds or seedlings (spinach/methi/coriander), Water, Nutrient solution (teacher/elder guidance), Sketch pens for labels

Safety Instructions

- Use child-safe scissors carefully
- Teacher/elder supervision required while cutting holes
- Keep water areas clean and spill-free
- Wash hands after handling nutrient solution
- Place the setup on a stable flat surface

Step-by-Step Activity Flow

1. Prepare the Hydroponic Reservoir

Take a recycled bucket, tub, or large reused container.

Ensure the container:

- is clean
- does not leak
- can safely hold water.

This becomes the nutrient water reservoir for the plants.

2. Create the Floating Support Lid

Take a thick cardboard sheet or reused sturdy packaging board.

Place it over the top of the container like a floating lid.

Make sure:

- it fits properly
- remains balanced
- can support the plant cups.

3. Mark & Cut Cup Openings

- Place reused cups on the lid surface.
- Trace circles around them using a pencil.
- Carefully cut circular holes using child-safe scissors under teacher guidance.
- Leave small gaps between each hole.

- These openings will hold the growing cups securely.
4. Prepare the Growing Cups
- Take reused cups and carefully make small holes or side slits near the bottom.
 - These openings allow plant roots to grow downward into the water reservoir.

5. Add the Growing Medium & Seeds

Fill the cups with:

- cocopeat, coco-coir or sand.
 - Now place 2–3 methi seeds or one small seedling in each cup.
 - Press gently around the plant to support it.
6. Add Water & Nutrients
- Fill the reservoir with water.
 - With teacher guidance, add nutrient solution if available.
 - Ensure the water lightly touches the bottom of the cups.
 - This allows roots to absorb moisture and nutrients continuously.

7. Assemble the Hydroponic System

Insert the prepared cups into the holes on the floating lid.

Check that:

- cups stay upright
- roots can grow downward
- the lid remains stable.

Your Hydroponic Deep Water Culture (DWC) System is now ready!

8. Observe Plant Growth

Over the next few days and weeks, students observe:

- root growth
- leaf colour
- plant height
- water level changes
- response to sunlight

Students may:

- record observations
- draw growth stages
- compare plant progress over time.

Evidence: Take a creative photo with your Hydroponic Floating Garden and upload it on the platform using the GoSharpener Calculator.

▶ Info Video

▶ Activity Video

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



INFOGRAPHICS

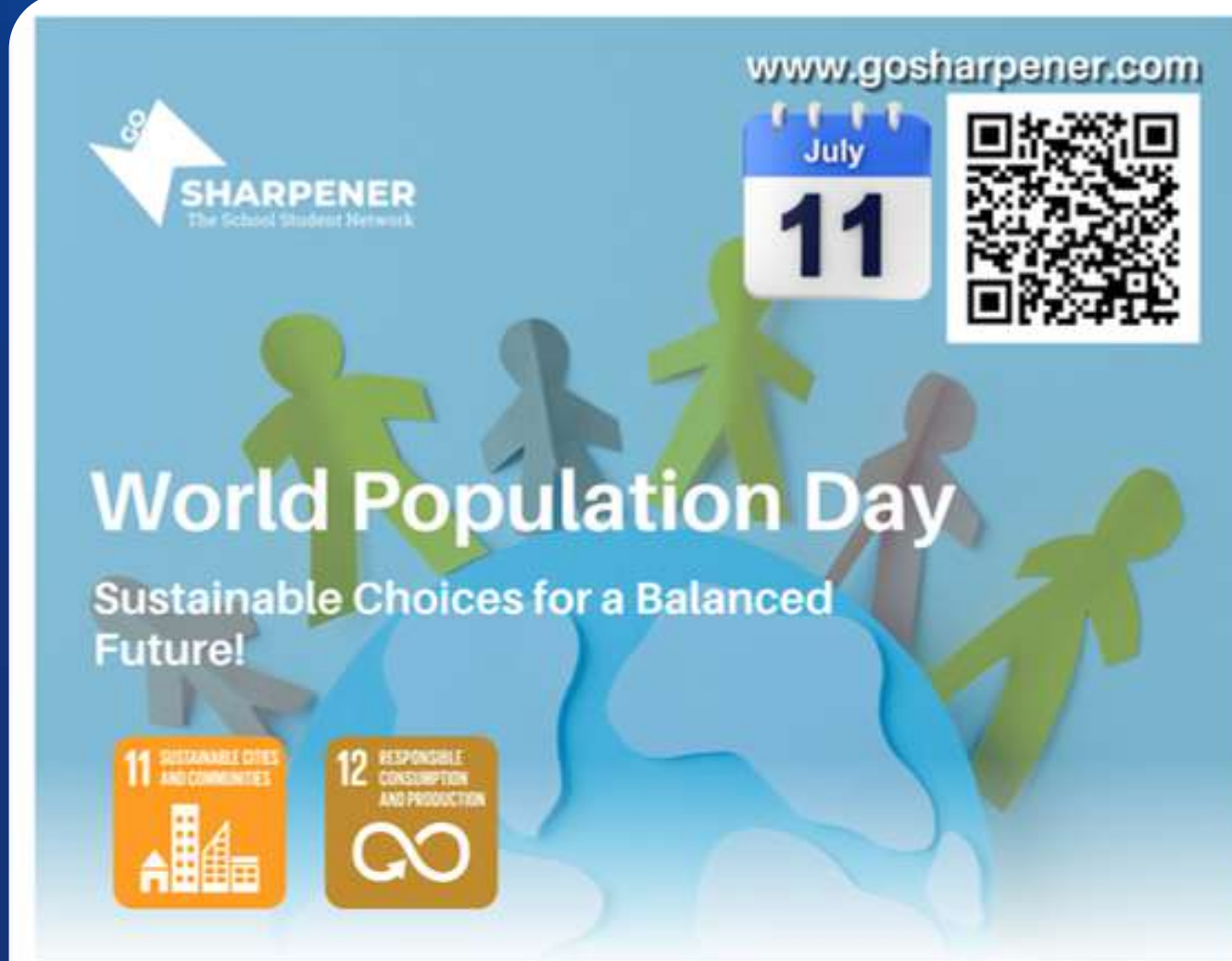


Started in India in 1950, **Van Mahotsav** promotes tree plantation and **environmental awareness**. A single mature tree can absorb up to **22 kg of carbon dioxide** each year and help improve air quality.

Here's How You Can Help:

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

#VanMahotsav26



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



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



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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