



STAGE 1: INVESTIGATE & CREATE

OBJECTIVES:

- Learn more about the environmental impact of paper and why GOOS paper bins contribute to protecting the environment
- Design an GOOS paper bins and a plan to distribute them to reduce paper waste

1. Ask club members what they know about paper

The questions below can guide the discussion:

WHEN DO WE USE PAPER?

- *To write and draw.*
- *But also: newspapers, water and pop bottle labels, books, gift wrapping paper and tissue paper, receipts, packaging, etc.*
- *Other paper products: cardboard, toilet paper and napkins, egg cartons, paper straws, etc.*

HOW IS PAPER MADE?

- *First, pulp is made from wood fibers, water and chemicals. This is spread on a screen. As the water drains through, the fibers stick together and create paper. Sometimes it is also pressed with big rollers to get more water out and heated so it will dry faster.*

How is paper recycled?

The Paper Recycling Process
(Domatar, video, 1:44)

How do they recycle paper?
(NFB, video, 4:02)

How is paper recycled
(How it's Made Show, video, 5:47)

WHAT ARE PROBLEMS RELATED TO USING TOO MUCH PAPER?

- *Deforestation: The higher the demand, the more trees are cut down. Unsustainable forestry impacts animal habitats, provokes changes in landscape and soil, and affect the local people's lives.*
- *Energy consumption: Making paper requires a lot of energy, which can lead to green house gas emissions.*
- *Water: Making paper requires a lot of water.*
- *Pollution: Chemicals used in making paper can hurt wildlife and the environment.*

2. Guide the discussion into how we can help

The 3Rs

We hear a lot about recycling. However, to reduce our environmental impact, it is important to follow them in order: first **reduce** our use of paper (when possible), then **reuse** (like with GOOS bins), and only then **recycle**.

Here are some sample questions:

- *How can we use less paper?*
- *What do you know about the 3 Rs?*
- *What else can we do to reduce the environmental impact of paper?*

3. GOOS Paper Bin

Explain what you are going to do: *Often, paper that is still good on one side (GOOS) gets thrown away. We are going to make and give out GOOS paper bins to encourage people to reuse paper.*

DECIDE ON YOUR PLAN:

- *Who are you going to give bins to?*
- *How many will you need?*

As a club, start preparing your bins using the materials you have on hand. Members can colour in the provided picture of the [Earth Rangers Clubs logo](#) (printed on GOOS paper) and paste them onto their bins.

