

# PRODUCTS

**TITLE:** Paper Recycling

**AGE GROUP:** 9-11

**DURATION:** 45 min

**LEARNING OUTCOME:** Enable learners to develop appropriate values, habits and attitudes when handling money. Provide opportunities for learners to understand the nature, sources and uses of money.

**KEY CONCEPTS:** Recycling.

**MATERIALS NEEDED:** Old paper, water, chopping machine, napkin and cloth, roller.

**LESSON DESCRIPTION:**

Introduce student with the concept of recycling.

*Recycling is the separation of materials and their reuse. The process of recycling includes collection, extraction, processing and production of new products from used materials or materials.*

*At a time when the environment is increasingly threatened by the irresponsible behaviour of at least every other person and a large part of the world's leading companies, it is important to think of ways to mitigate the increasing damage we are doing to the environment around us. Recycling is one way and is of great importance for preserving the planet.*

*Around 50 kilograms of paper are consumed annually per capita. It takes a tree 30 years or more to grow to be usable in paper making. Forests are the lungs of our planet and the habitat of 80% of terrestrial animals. To produce one ton of paper, two trees must be cut down and 240,000 l of water and 4,700 kWh of electricity consumed. Recycling paper, or producing one ton of paper from old paper, does not require a single tree and saves forest resources, reducing the amount of water consumed by over 99% to just 180 l, while reducing electricity consumption by 40% to just 2,750 kWh. Paper can be recycled up to 7 times as the size of the fibres decreases with each recycling process.*

Present to the students how you will work to recycle paper:

- Prepare the necessary things (old paper, water, chopping machine, napkin and cloth, roller)
- Shred paper into smaller pieces
- Put pieces of paper in the chopping machine
- Add hot water
- Roll and form the mixture
- Strain and dry paper
- After the process, we have a new paper.

In the end, reward students for recycling paper.