

CLEAN WATER FOR EVERYONE – MINI FILTRATION EXPERIMENT



Clean Water for Everyone – Mini Filtration Experiment

Objective:

Students will understand the importance of clean water and observe how natural filters work in the environment

Materials:

- 1 plastic bottle (cut in half)
- Cotton or coffee filter
- Sand and gravel
- Dirty water (e.g., mixed with a little soil or leaves)
- Cup to collect filtered water



Procedure:

1. Place the top part of the bottle upside down into the bottom part (like a funnel).
2. Create layers in the “filter”:
 - 1st layer: cotton
 - 2nd layer: coffee filter
 - 3rd layer: sand
 - 4th layer: gravel
3. Slowly pour the “dirty water” over the filter.
4. Observe how the water that comes out at the bottom becomes cleaner.

Discussion:

- Which layer seemed to clean the water the most?
- How does this resemble the natural filtration process in nature?
- Why is it important to protect clean water?

