

WORKSHOP OVERVIEW | SUSTAINABLE CLEANING PRODUCTS



Overview:

In this activity, students will be creating their own eco-friendly cleaning products. Students learned that chemicals from the products we use at home and in school go down the drain and into our watershed. The polluted water then goes to water treatment plants before being sent back into the water system. By using clean products with fewer chemicals, we ensure individual and environmental health.

Activity Duration: 20-30 minutes

ESSENTIAL QUESTIONS

- *Why is it important to use cleaner products at home and in school?*
- *In what way do chemical-heavy products impact our water systems?*

MATERIALS NEEDED

- *Recipe cards*
- *100mL Graduated cylinder*
- *250 mL beaker*
- *Distilled water*
- *Witch hazel*
- *Castille soap*
- *Vinegar*
- *Rubbing alcohol*
- *Essential oils*



ACTIVITY DESCRIPTION

1. Gather and set out ingredients for your chosen cleaning product (recipes and ingredients are outlined on recipe cards).
2. Follow the outlined instructions on the recipe cards to create your products.
3. Add a label to the products. Be sure to include the name of the product, the ingredients in the product, and any other information or imagery you desire.
4. Use or gift your clean products.



HAND SOAP

Ingredients and Materials:

- Castile soap
- Distilled water
- Eucalyptus essential oil
- 320mL (10oz) soap dispenser
- 100 mL graduated cylinder
- 250 mL beaker
- Funnel
- Pipette

Steps:

1. Using a graduated cylinder, measure 80 mL of castile soap. Add to the soap dispenser.
2. Using a graduated cylinder or a beaker, measure 240 mL of distilled water. Add to the soap dispenser.
3. Add 5 drops of eucalyptus essential oil.
4. Shake to combine.



ROOM SPRAY

Ingredients and Materials:

- Witch Hazel
- Distilled water
- Peppermint essential oil
- 500 mL (16oz) spray bottle
- 100 mL graduated cylinder
- 250 mL beaker
- Funnel
- Pipette

Steps:

1. Using a graduated cylinder, measure 125 mL of witch hazel. Add to the spray bottle.
2. Using a graduated cylinder or a beaker, measure 375 mL of distilled water. Add to the spray bottle.
3. Add 5-10 drops of peppermint essential oil.
4. Shake to combine.



DESK CLEANER

Ingredients and Materials:

- Rubbing alcohol
- Distilled water
- Vinegar
- Lemon essential oil
- 500 mL (16oz) spray bottle
- 100 mL graduated cylinder
- 250 mL beaker
- Funnel
- Pipette

Steps:

1. Using a graduated cylinder or a beaker, measure 245 mL of rubbing alcohol. Add to the spray bottle.
2. Using a graduated cylinder or a beaker, measure 245 mL of distilled water. Add to the spray bottle.
3. Using the graduated cylinder, measure 10 mL of vinegar and add to your spray bottle.
4. Add 5 drops of lemon essential oil.
5. Shake to combine.