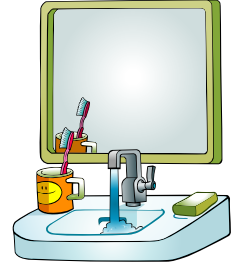




Activity: Water Use Experiment

Using water responsibly at home is an important skill. It helps keep our homes safe and protects the environment. Sometimes, we don't realize how much water we use every day, for example, when brushing our teeth. In this experiment, you will explore how much water is used and learn ways to use it more responsibly. Follow the procedure carefully and share your findings.



GROUP MEMBER NAMES AND JOBS

Write the name beside each job listed below:

Recorder: _____

Toothbrusher: _____

Water measurer: _____

Timer: _____

Hypothesis: How much water do we use when we brush our teeth?

MATERIALS

1. Experiment handout: Water Use Experiment
2. Toothbrush
3. Toothpaste
4. Jug that shows measurement markings in millilitres and litres
5. Timer
6. Access to a sink

EXPERIMENT PROCEDURE

1. Learners will assign roles within their group and record each member's responsibilities
2. Learners will gather all the experiment materials,
3. As a group, learners will brainstorm a hypothesis and record it on the handout.
4. The experiment will have two parts: one using running water and one without running water.
 - A. **Running water section**
 - i. Go to the sink. Place the jug at the bottom of the sink.
 - ii. Turn on the water tap. *Keep the water running.*
 - iii. Fill half of the cup with water. Set aside.
 - iv. Wet the toothbrush then place some toothpaste on the toothbrush.
 - v. Brush teeth for one minute. *Keep the water running.*
Let the water collect in the jug.
 - vi. After one minute, spit out the water into the jug.
 - vii. Rinse teeth with the water from the cup. *Keep the water running.*
 - viii. Spit out the water from rinsing into the jug. *Keep the water running.*
 - ix. Place the remaining water from the cup into the jug.
 - x. Turn off the water.
 - xi. Measure how much water was used to brush teeth in the results chart below.



B. Conserving water section

- i. Go to the sink. Place the jug at the bottom of the sink.
 - ii. Turn on the water tap and fill half of the cup with water then rinse the toothbrush with water. Turn off the water tap.
 - iii. Place some toothpaste on the toothbrush.
 - iv. Brush teeth for one minute.
 - v. Rinse teeth with the water from the cup.
 - vi. Spit out the water from rinsing into the jug.
 - vii. Turn on the water tap and rinse the toothbrush.
 - viii. Turn off the water tap.
 - ix. Measure how much water was used to brush teeth in the results chart below.
5. Check that the recordings for the results are in the charts below.
6. Complete the experiment conclusion.

RESULTS

	How much water was collected after one minute of brushing teeth?
Running Water Results	_____ millilitres
Conserving Water Results	_____ millilitres

