

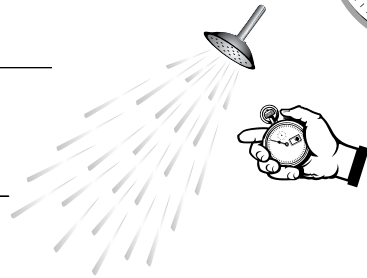
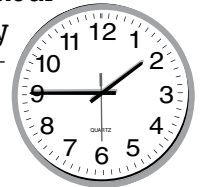
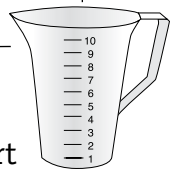
Drips and Drops

The tap water and bottled water that we drink can come from many places. These sources may include lakes, rivers, streams, ponds, reservoirs, springs & aquifers. Water that contains a lot of minerals may taste different than your tap water at home. Distilled water, which has had the minerals removed, may taste different than the water from your drinking fountain at school.

We often don't realize how much water is wasted each day. In Water Drips & Drops, on the first page of the newsletter, you learned that the amount of water used for a person's shower can vary a lot. A longer shower will use more water than a short shower. This means that taking shorter showers saves water. We should all try to find easy ways to save some of those drips and drops!

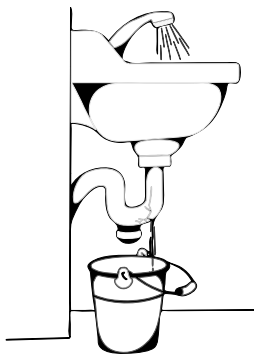
Use your math skills to solve the puzzles below. We have included a measurement chart to help you. When you finish, you will discover that all those drips and drops can add up in a hurry!

Measurement Chart	
Liquids	
8 ounces	= 1 cup
2 cups	= 1 pint
2 pints	= 1 quart
4 quarts	= 1 gallon
Time	
60 seconds	= 1 minute
60 minutes	= 1 hour
24 hours	= 1 day



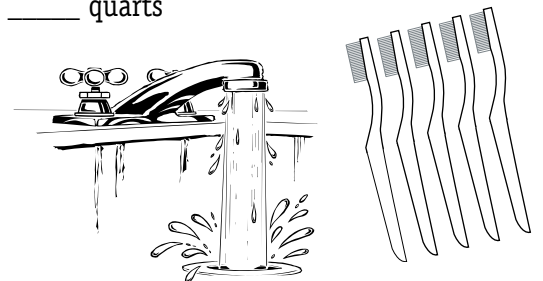
Puzzle #1

A 10-minute shower uses about 50 gallons of water.
 How many gallons of water would be used for a quick, 60-second shower? ____
 How many quarts does this equal? ____



Puzzle #2

A family discovered that the pipe under the faucet in the bathroom has a leak. It has been leaking water for three days. The plumber thinks that $2\frac{1}{2}$ pints of water have been leaking from the pipe every day. Fortunately, the plumber was able to fix the leaky pipe.
 How much water leaked in 3 days? ____ pints or ____ quarts
 How many ounces does this equal? ____



Puzzle #3

There are five people in Andy's family. Everyone forgets to turn off the water while brushing their teeth. Every time a person leaves the water running, about 24 ounces of water is wasted. If they brush their teeth two times every day, how much water is wasted by the end of each day? ____ quarts

Extra Challenge

Create a puzzle of your own and ask a friend to solve it!

Listen a Minute and Save Water!

You have learned how important it is for all of us to save water. Now it is time to spread the word! Pretend that you have been asked to write a one-minute radio announcement for a local radio station. You will need to gather all your creative talents to get the message across about saving water. Remember, a minute goes by pretty fast, so choose your words wisely.

Use the outline below to help you develop the announcement. Jot down some notes in each section. Then write your script. Read your script aloud several times and improve it by making changes to it. When you have finished making all the changes, read it one more time and enjoy it!

What are the most important messages?

What are some details you want to include?

What do you want to say at the beginning of your announcement?

What do you want to say in the middle of your announcement?

What do you want to say at the end of your announcement?

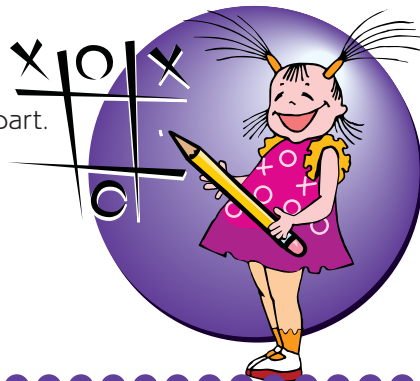


Extra Challenge

Put together a radio show and have all your classmates read their announcements.

Conservation Tic-Tac-Toe

It's easy to use less water. All it takes is a little effort on everyone's part. Discuss several ways to save water in your homes. Then check your memory by playing Conservation Tic-Tac-Toe with a partner!



Learning Goals

To increase awareness about the importance of water conservation.
To learn about several practical ways to save water at home.



Background

It is never too early for children to learn about the importance of saving water. There are many ways that we can save water in our homes, at school and just about anywhere else we use it. If all of us practice water-saving habits, we can help to make sure we have enough clean, safe water when these children become adults.

Materials

- scissors
- copies of "Tips for Saving Water"
- crayons
- copies of "Conservation Tic-Tac-Toe" activity sheet

Activity

1. Discuss the importance of water conservation. Have students describe several ways in which we use water every day. Use the list of "Tips for Saving Water" as a guide and ask students to describe easy ways to practice water conservation habits.
2. Distribute copies of the "Conservation Tic-Tac-Toe" activity sheet. Read the directions together and play the game.

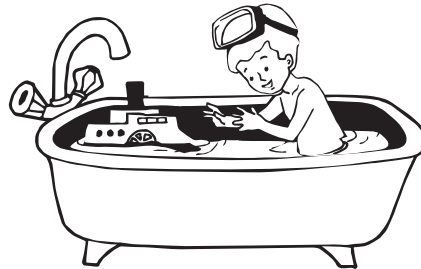
Extension

Encourage students to take their games home and play with their families. Stress the importance of sharing information about saving water with friends and relatives.

Tips for Saving Water

In the Kitchen

- Run the dishwasher only when it is full.
- Don't leave the faucet running.
- Fix any leaky pipes.



In the Bathroom

- Turn off the faucet while washing your face.
- Turn off the faucet while brushing your teeth.
- Take short showers.
- Take baths without using a lot of water.
- Don't flush bugs or litter down the toilet.
- Fix any leaky pipes.
- Install water-saving fixtures on faucets and toilet tanks.

In the Laundry Room

- Run the clothes washer only when it is full.
- Fix any leaky pipes.



Outdoors

- Avoid watering the lawn too much.
- Create landscapes that don't need a lot of water.
- Use environmentally friendly mulch around plants to hold moisture.
- Always use a hose with a nozzle on it.
- Sweep off driveways and sidewalks instead of hosing them.
- Follow your government watering rules.

Conservation Tic-Tac-Toe

Directions:

1. Cut out the game board.
2. Color five of the droplets blue and five of the droplets green. Each color will represent a different player.
3. Cut out the droplets.
4. Player #1 begins by telling one way to save water. Then that player places a droplet in one of the squares on the game board.
5. Player #2 describes another way to save water and places a droplet on the game board.
6. Continue taking turns until a player has three of his or her pieces in a row, in a column or on a diagonal. That player then ends the game by saying "Conservation Tic-Tac-Toe."

Player 1



Player 2

