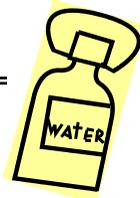




Trivia Facts



- A bath takes 36 gallons of water. A shower takes 5 gallons for each minute. How often do you bathe? How much water do you use?
- A load of laundry takes 40 gallons of water. How many loads of wash does your mother do in a week?
- Each toilet flush uses 5 gallons. How many times do you flush? How many gallons is that?

Jokes

- A. What do your brain and a tree have in common?
- B. What moves nutrients in your body and dirt in the streets?
- C. What do your body and the planet Earth have in common?



Joke Answers

- A. Both are $\frac{3}{4}$ water.
- B. Water.
- C. Both control their temperatures with water.



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Water Pollution Sources



There are two kinds of water pollution: point source pollution and non-point source pollution.

Point source pollution is when you know exactly where the pollution entered the water system. Perhaps you are helping your dad change the oil in the family car. Instead of taking the oil somewhere to be recycled, your dad walks to the end of the driveway and dumps the oil down the storm drain. We can point to the exact place the pollutant came from (the oil pan) and the exact place it entered the water system (the storm drain). Other examples of point pollution include pipes, drains, ditches, and channels.

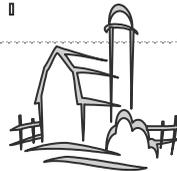


Non-point source pollution is when the pollutant enters the water system over a large area. Imagine you help your mom fertilize the lawn one afternoon. That night it rains and the fertilizer runs off your lawn and into the water system. Since the pollutant ran off your entire yard, it's **non-point source pollution**. We cannot determine the exact spot where the pollutant originated.



Farm Facts

Farmers Save Water



Farmers think about the amount and quality of water on our Earth, too. After all, they need water for their crops, animals, and families. Here are some ways farmers save water:

- They plant crops that can live with little water.
- They water only the crops that need it.
- They use watering systems that drip small amounts of water on the plants instead of spraying an entire field.
- They use watering systems that put the water right at the crops' roots. This means less water evaporates.
- Irrigated strips of plants are covered with plastic to prevent evaporation.



What Do You Remember?

Read each story. Write a "P" next to those that are point pollution and "NP" next to those that are non-point pollution.

_____ Kyle is filling up the gas tank on his boat at a marina. He accidentally lets the gas tank run over and the gas flows into the lake.

_____ A large storm rolls through town. As the water washes over driveways, sidewalks, parking garages, and streets it picks up dirt, trash, and pollutants and washes them into the river.

_____ A new house is being built in your neighborhood. Before the grass is planted in the yard, a thunderstorm rolls in. The rain washes the dirt from the yard into the storm drain.

_____ A drainage pipe from a factory is dumping pollutants into a nearby stream.



You Can Save Water



Here are a few ways to save water:

- Ask Mom and Dad to plant flowers and trees that need little water.
- Water lawns less often.
- Use a watering system that drips instead of sprays.
- Water gardens early in the morning. Cool morning air evaporates less water.
- After you wash your car, use the bucket of dirty water on the trees and flowers in your yard.



Water is a Precious Natural Resource

Look at the globe. It looks like there is enough water on the planet to last forever. Most of the world's water (97%) is in the ocean and ocean water is too salty to use. Some water (2%) is trapped in polar ice caps and glaciers. That leaves only a small amount (1%) of the world's water for people, animals, and plants. We need to use our water wisely.



Be a Water Wizard

Here's a magic trick to show your friends. Tell them you can hold a full glass of water upside down without spilling a single drop, just by saying the magic word, "Abracadabra." So, what's the trick?

The water in the glass is frozen! Water is the only natural substance that is found in all three physical states on Earth.

- When water is 32°F or 0°C and colder, it is in a solid state.
- Add heat and it magically turns into a liquid state called water. (33°F- 211°F or 1°C - 99°C)
- Add even more heat and the water turns into a gas state called steam. (212°F or 100°C or above)