

Education and outreach is an opportunity for us to bring awareness to the many ways we can help keep our environment thriving. Children lead the way when they understand how their actions can impact and influence those around them.

For more information about our education and outreach programs, visit:  
[CityofPSL.com/Utility-Education](http://CityofPSL.com/Utility-Education)

For more information about presentations and educational resources, contact:



**Jenny Tomes, APR, CPRC**  
**772-618-3142**  
**[jtomes@cityofpsl.com](mailto:jtomes@cityofpsl.com)**



-  Conservation
-  Resources
-  Treatment

# Activity Book



**PORT ST. LUCIE**  
UTILITY SYSTEMS

**WATER WOMAN**



Water Woman is a water-saving superhero, known for her conservation efforts and passion for this precious resource. All living things need water to survive and Water Woman helps protect and conserve water while inspiring others to do the same.



**WATER WOMAN**



**WATER-SAVING  
PLEDGE**



By turning the faucet off when brushing my teeth for the recommended 2 minutes twice a day, I will save **8 gallons of water a day**, which equals **2,920 gallons a year**.



Sign your name above to commit to turning the faucet off every time you brush your teeth, then cut this page out and post in the bathroom as a reminder.



# HOW DO YOU SAVE WATER?

Draw your favorite way to save water at home.

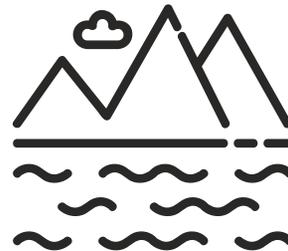
# HOW MUCH WATER IS ON EARTH?



Color the water blue and the land green.

About 70% of the Earth's surface is covered with water.

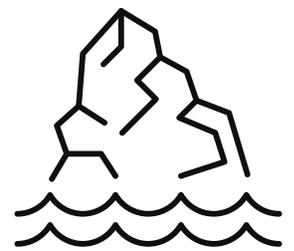
Only 3% of water is fresh, 2% is frozen in glaciers  
and we can only access 1%.



Lake



River



Glacier

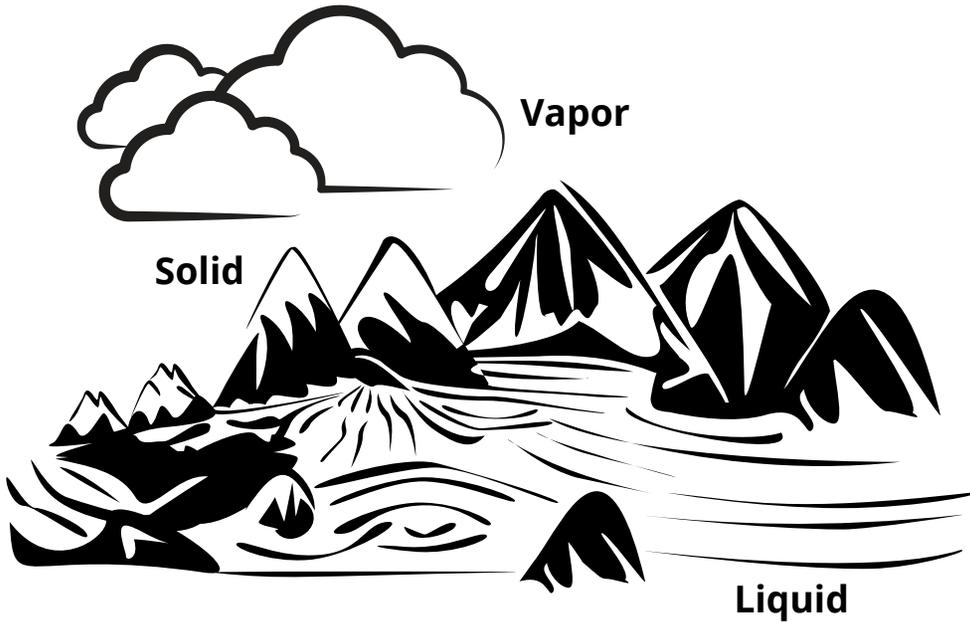
# UNITED STATES OF WATER

Water is the only substance found naturally in three different states.

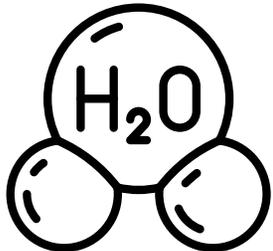
The **solid** state of water, or ice, is found at the poles of the earth, snow-covered mountains and glaciers.

The **liquid** state of water is present in rivers, lakes and oceans.

The gaseous state of water, or water **vapor**, is all around us, sometimes visible as clouds or steam.



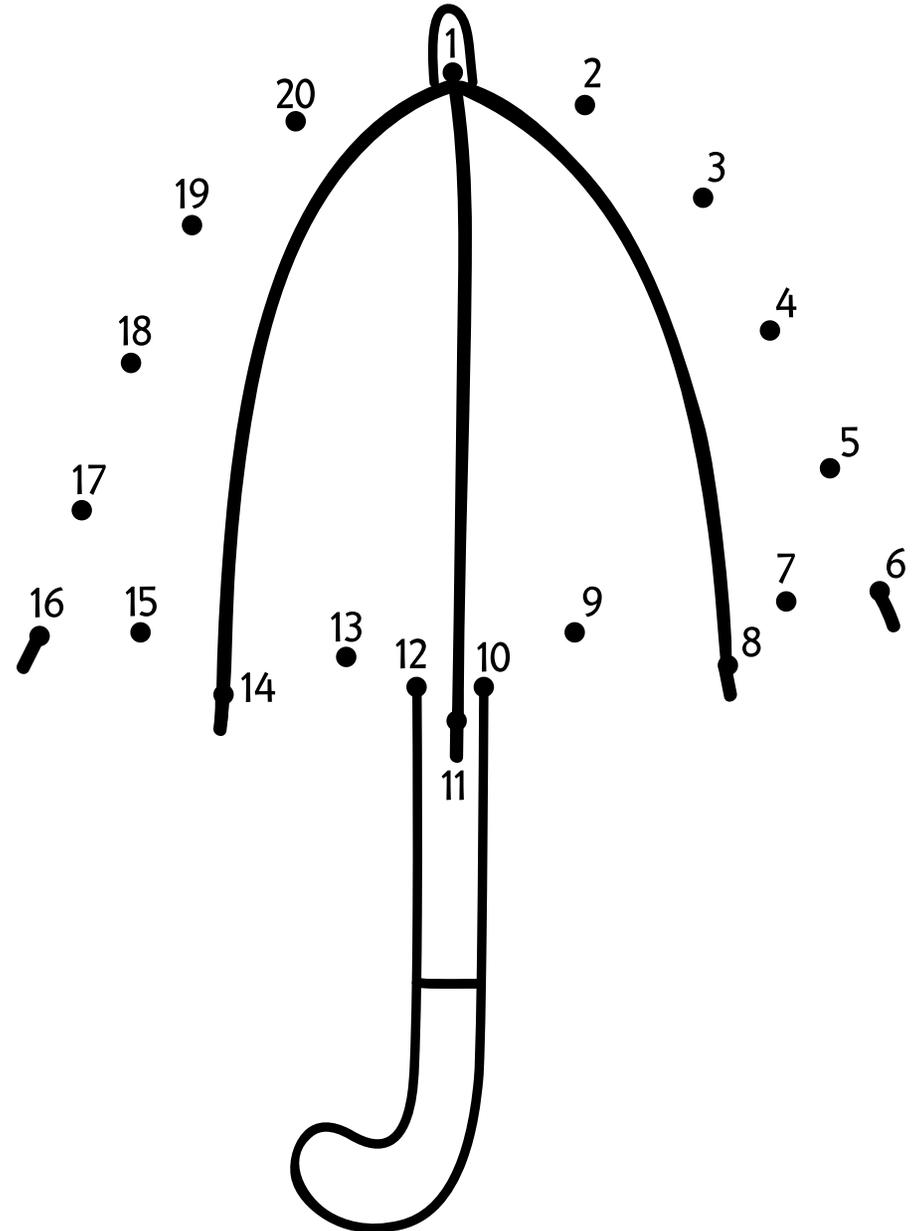
# MOLECULE MAKER



A water molecule is made up of two hydrogen atoms and one oxygen atom, and that's why we call water H<sub>2</sub>O. Using plastic caps, lids or other round items found around the house, see how many water molecule models you can make.

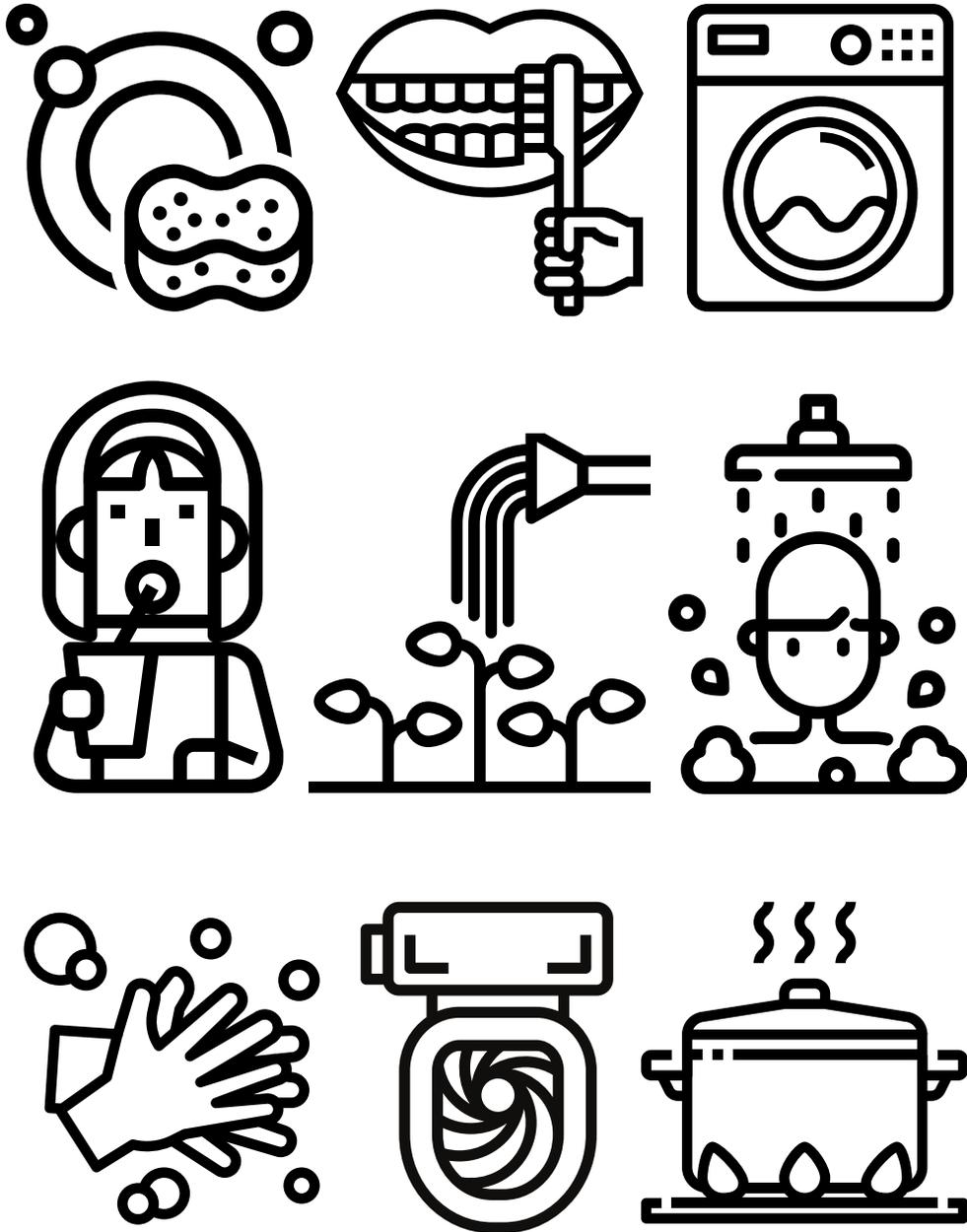
# RAIN, RAIN DON'T GO AWAY

Connect the dots to keep dry.



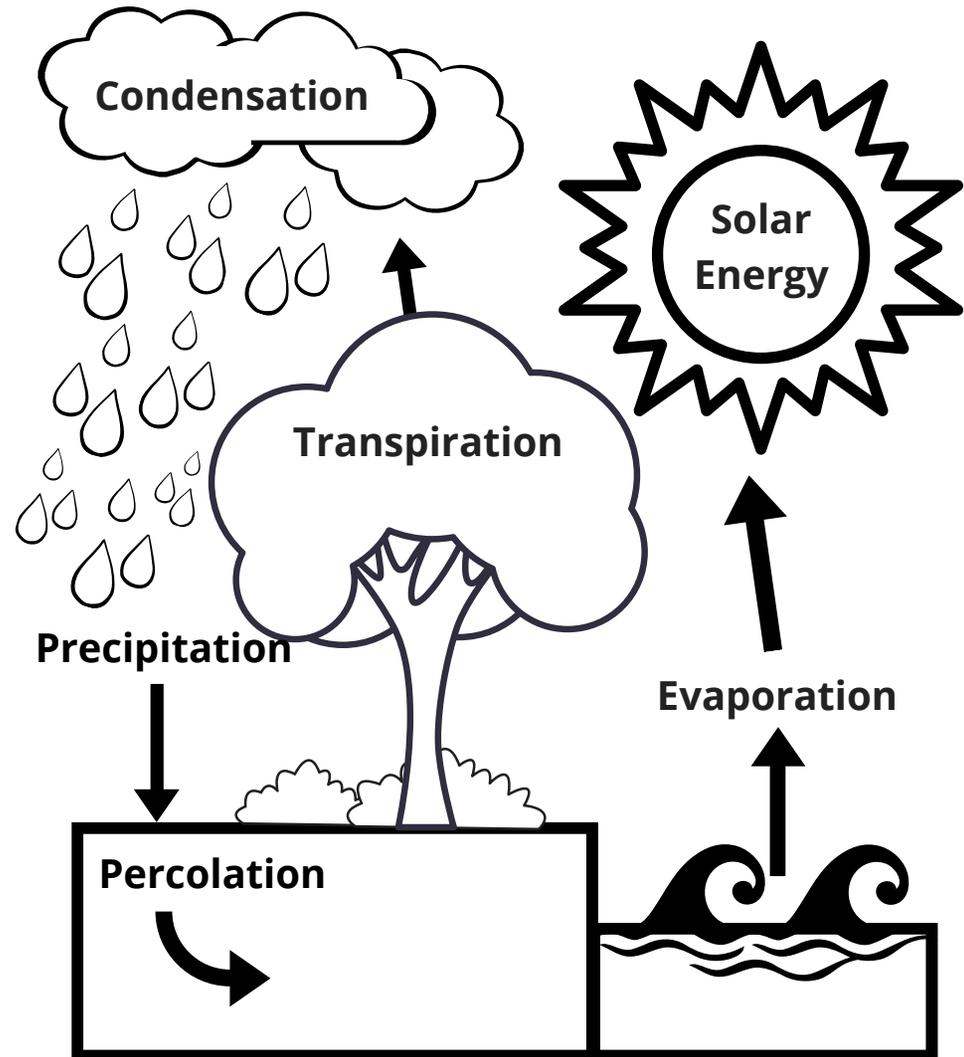
# WATER COLOR

Color each of the ways we use water at home.



# WATER CYCLE

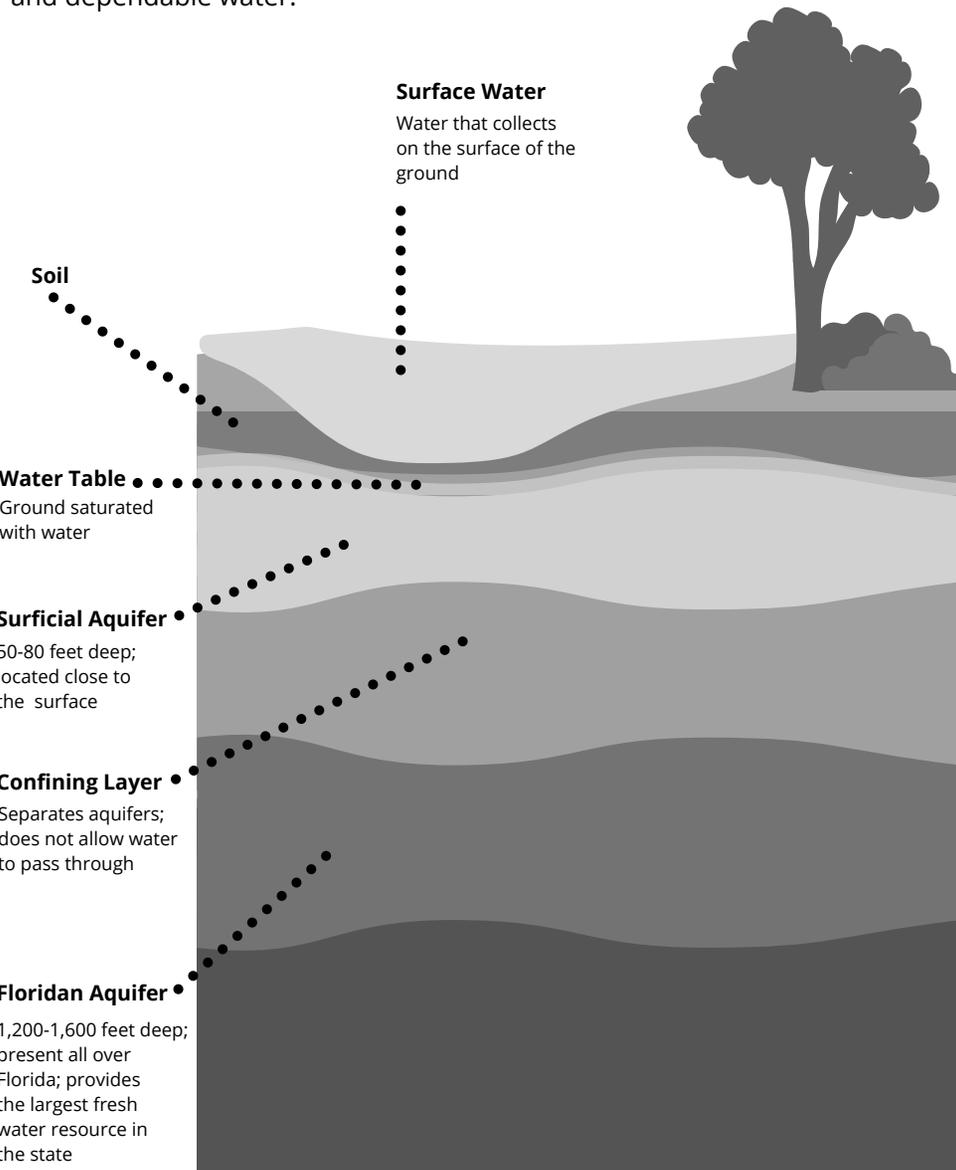
All of the Earth's water is part of an endless "water cycle." Through this cycle, nature cleans and moves water from the ocean to the air, then to the land and back again.



All the water in Earth's oceans, lakes and rivers has been there for billions of years as part of the endless water cycle.

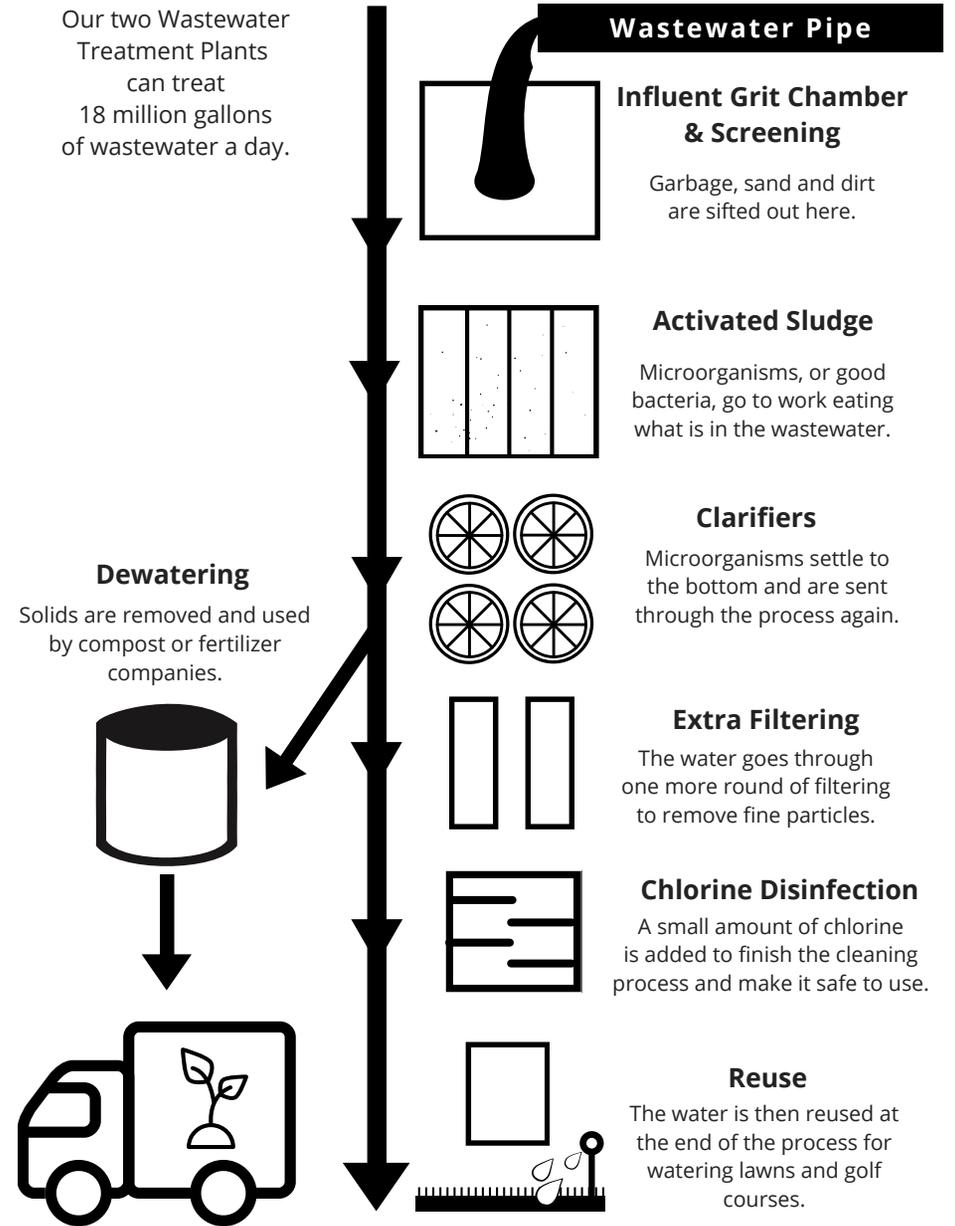
# WHAT IS AN AQUIFER?

An aquifer is an underground layer made of rock and sand that can absorb and hold water. The City of Port St. Lucie taps into two different freshwater sources: Surficial Aquifer and Floridan Aquifer. The Floridan Aquifer is present in all areas of Florida, and it provides the largest volume of safe and dependable water.



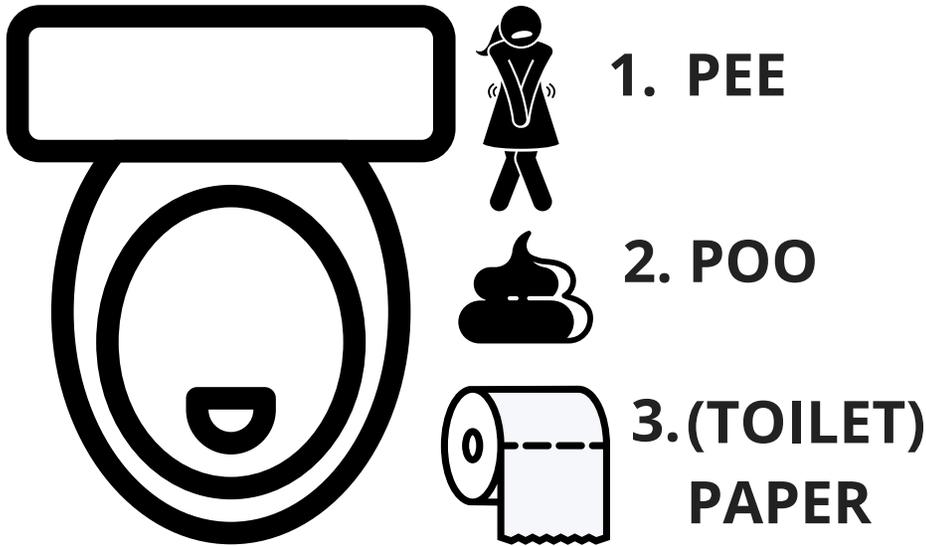
# TREATING WASTEWATER

Wastewater from your home goes to the Wastewater Treatment Facility. It goes through several steps to be cleaned so it can be used again.



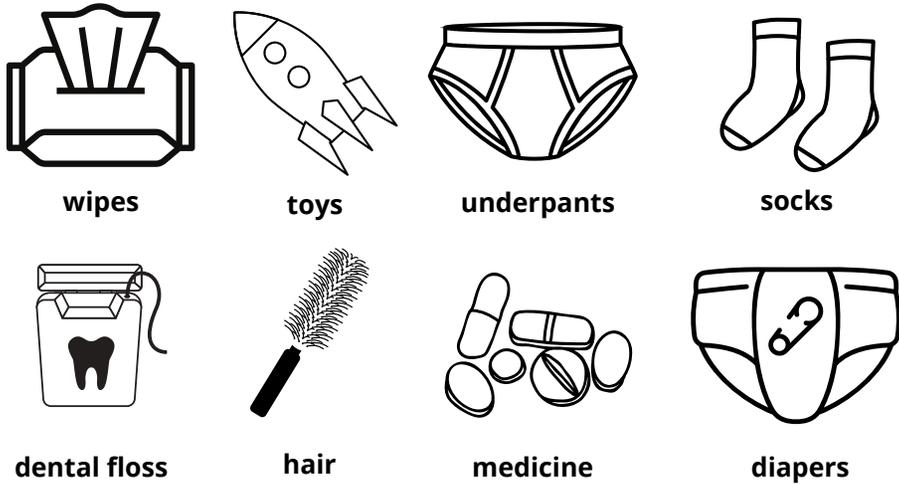
# ONLY FLUSH THE 3 PS

A toilet is not a trashcan, so don't flush things that can be thrown away instead. Trash could cause clogs or harm to the system.



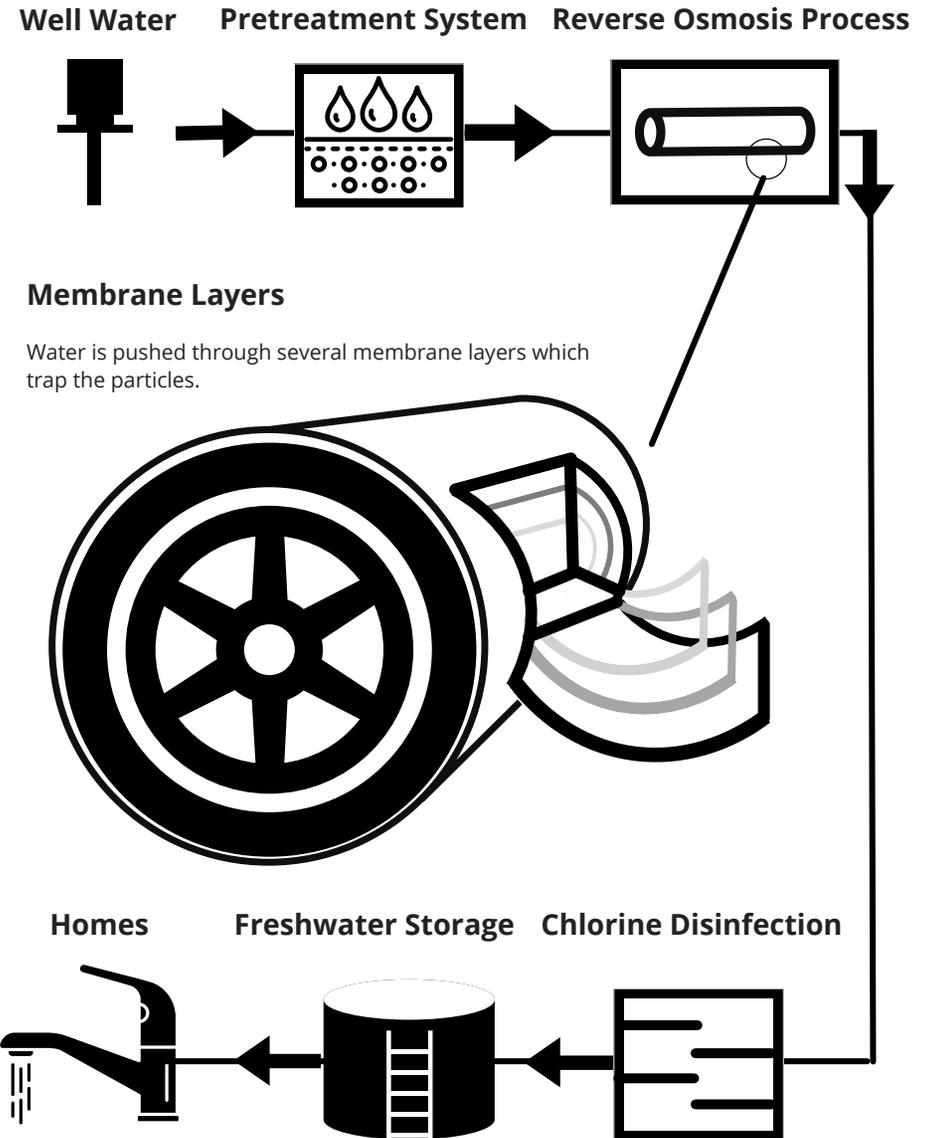
# THE UNFLUSHABLES

Here are just some of the items you should keep out of the toilet and the sink to avoid clogs and harm to the system. What items can you add to this list?



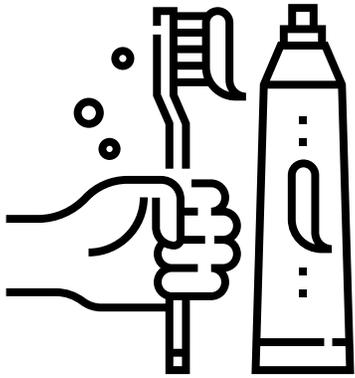
# REVERSE OSMOSIS PROCESS

Our water is treated through reverse osmosis. This process uses pressure to push well water through membranes to remove the bad particles. The treated water is then ready to use and sent to your home.



## WAYS TO SAVE

By making a few simple changes at home, you can conserve lots of water. Here are a few ways to save in the bathroom.



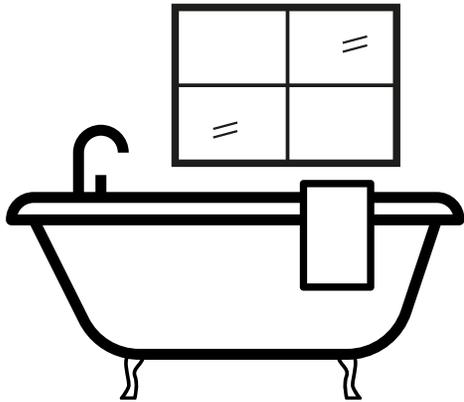
### Turn the faucet off while you brush

You can save 8 gallons of water a day just by turning off the faucet in the morning and at night.



### Shower in 10 minutes or less

10-minute showers with low-flow shower heads use about 25 gallons of water.



### Only fill the tub half-way

Bathtubs come in all shapes and sizes, so be sure to only fill it half-way to save water.



### Don't waste a flush on trash

Toilets can use between 2 and 7 gallons of water per flush, so save water and only flush the 3 Ps.

## SIDEKICK SUPERHERO

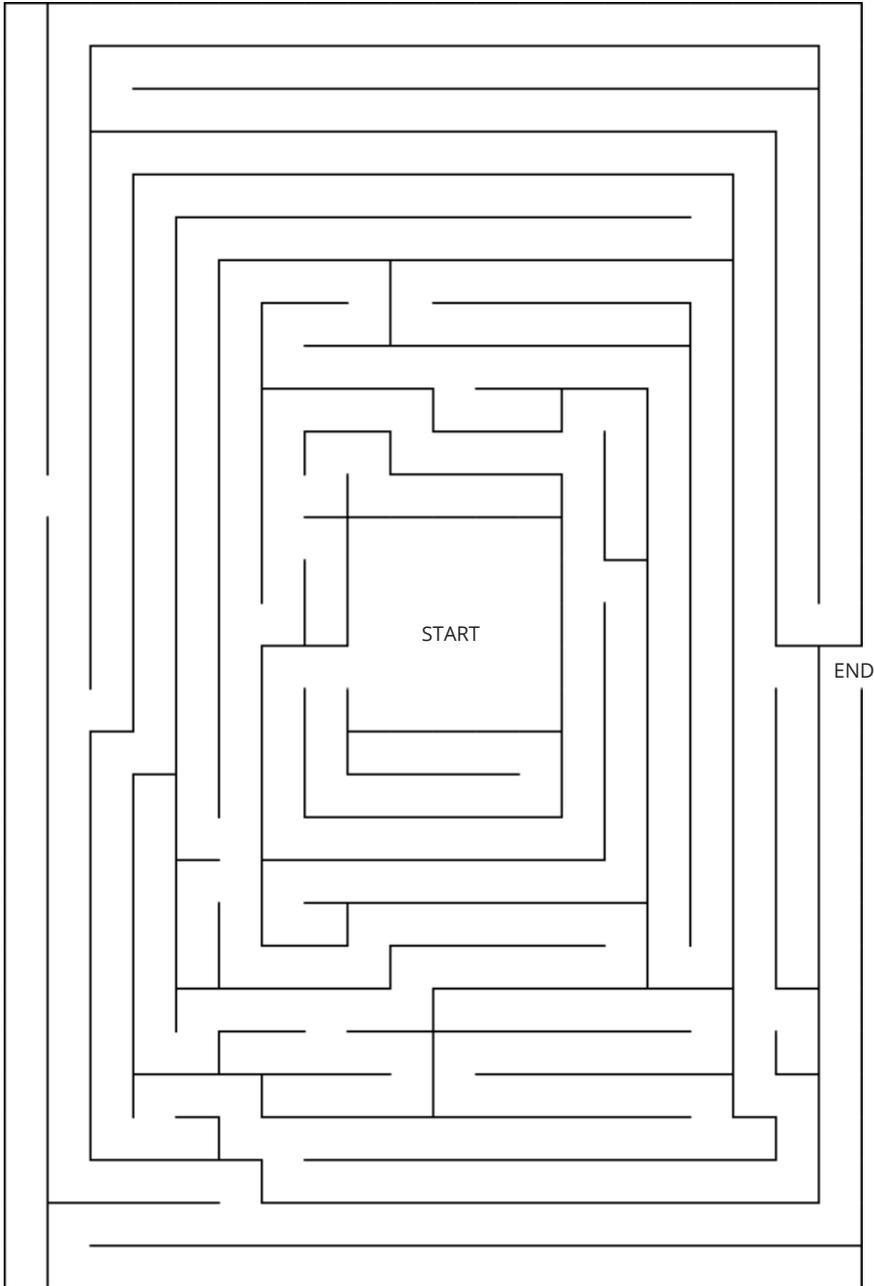
Water Woman needs your help to spread the word about protecting and saving water. Will you be her sidekick? What would your name and superpower be? Would you wear a special outfit? Draw yourself with Water Woman below.

My superhero name is: \_\_\_\_\_

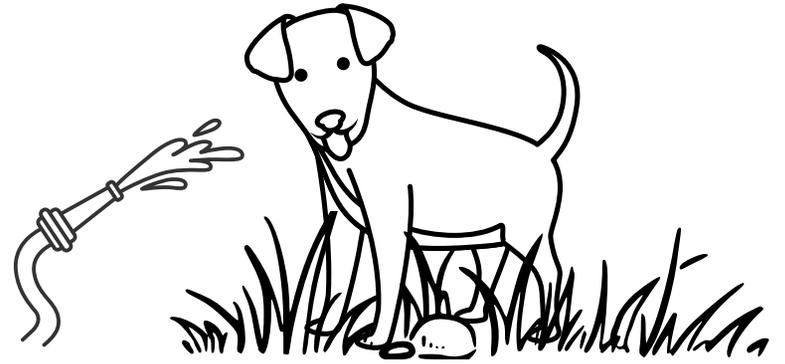
My superpower is: \_\_\_\_\_

# MAZE ESCAPE

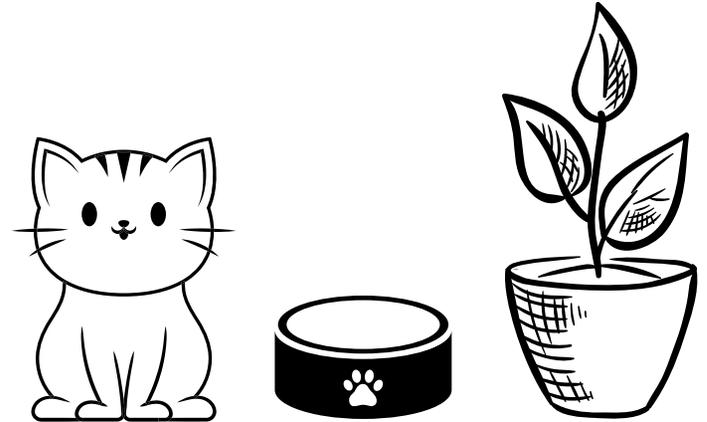
Find your way out of the maze to help Water Woman protect and conserve water.



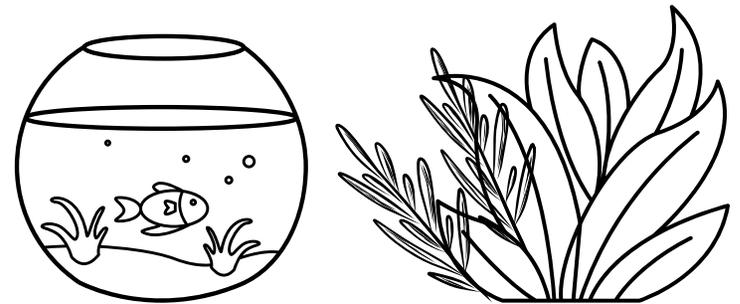
# REUSE YOUR PET'S WATER



Take your dog out in the yard for his bath and the grass gets water too.



Use your cat's leftover water from her dish to water a plant.



Instead of dumping dirty fish bowl water down the drain, water an outdoor plant.

