



SUSTAINABILITY ACTIONS



Place a check ✓ next to each item **YOU** can do to help conserve and keep our water clean.

- | | | | |
|--------------------------|--|--------------------------|--|
| <input type="checkbox"/> | Water plants instead of pouring water down the drain. | <input type="checkbox"/> | Make sure family's car isn't leaking oil in driveway. |
| <input type="checkbox"/> | Try to take shorter showers. | <input type="checkbox"/> | Let my trash blow away in the wind. |
| <input type="checkbox"/> | Pick up after my dog and remind others to do the same. | <input type="checkbox"/> | Be a detective and always be aware of possible leaks. |
| <input type="checkbox"/> | Bring my own reusable water bottle. | <input type="checkbox"/> | Always use a hose nozzle on my hose. |
| <input type="checkbox"/> | Plant native and drought-tolerant plants that belong here. | <input type="checkbox"/> | If I wash my car at home, let the hose run the whole time. |
| <input type="checkbox"/> | Run the washing machine even when it isn't full. | <input type="checkbox"/> | Recycle whenever possible. |
| <input type="checkbox"/> | Always leave the water running when brushing my teeth. | <input type="checkbox"/> | Don't care about the dangerous chemicals my family uses. |

I PLEDGE to become a **water steward** and to do my best to make smart choices and take actions that help conserve and keep our water supply clean:

Name: _____

Date: _____



Water Wise Technologies

These are things you can try to use at home!



High Efficiency Shower Head



Did you know?

The average person uses up to 40 gallons per day just by showering. That's 14,560 gallons of water per year!



Uses 2.0 gallons per minute.

Did you know?

A garden hose could release anywhere from 9 gallons to 30 gallons per minute that water is running!



Hose nozzles save water by temporarily stopping the flow of water and you can also adjust the pressure for your need.



Hose Nozzle



Aerator



Did you know?

Aerators are found at the head of a faucet. They mix air and water together to create more pressure and to use less water.

no aerator vs. aerator



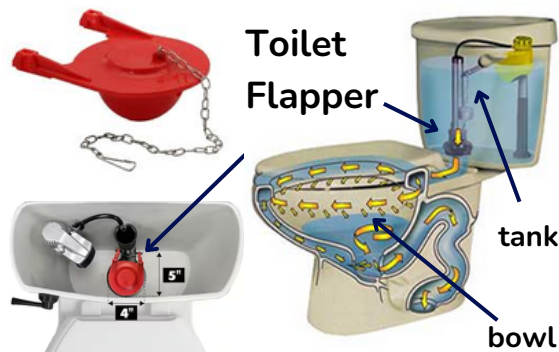
2.2 gal vs. 0.5 gal

If water flows steady with air bubbles that looks white, then you have one, but if water is clear then you may need one.

Did you know?

A toilet flapper stores water in the tank. When you flush, the handle lifts the flapper and lets water into the toilet bowl, then closes back up tightly like a door between two rooms. Flappers are made of rubber and can easily dry out causing a leak. It can waste up to 200 gallons a day!

Want to be a detective and try an experiment? See how on the next page!

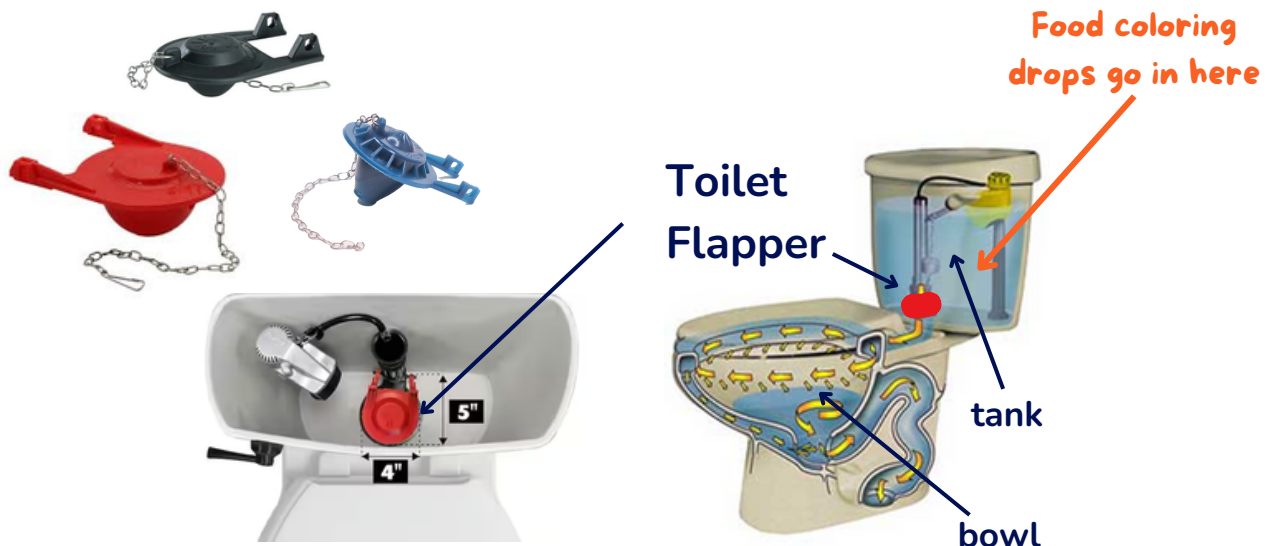




LIMITING LINGERING LEAKS

Toilet Leak Experiment:

- Let's make sure your **toilet flapper isn't leaking!**
This experiment can be done several times a year or whenever you suspect a leak.
 - With permission from an adult, you can put some food coloring in the toilet tank.
 - Set a timer and **do not** flush your toilet for 30 minutes.
 - Then go back and see if the colored water flowed into the toilet bowl.
 - If you saw any color in your bowl then your flapper is leaking and it is time to replace it.
 - With assistance, measure the size of your current flapper so you know what size to replace it with. Then your family can purchase a new one.





DID YOU KNOW?

Everything we use and do requires water? **Direct water use** is when we use it for drinking, bathing, or cooking. But what is **indirect water use**? This is the water that is needed to make something or used during the process of providing a service.

Put the letter "D" for the examples below that are direct water use and put the letter "I" for the examples of indirect water use. Also note how many gallons of water are used, it might surprise you!

Taking a 10 minute shower (~25 gallons)

To make a hamburger patty (~over 600 gallons)

8 oz of chicken (~330 gallons)

Washing a car by hand (~ 100 gallons)

To make a small bag of potato chips (~ 49 gallons)

One pair of cotton jeans (~2,866 gallons)

Using a high efficient dish washer (~4 gallons)

Taking a full bath (~70 gallons)

To grow 1lb of cotton (~100 gallons)

1 piece of paper (~1.3 gallons)

Production of finished steel to make one car (uses ~62,500 gallons).

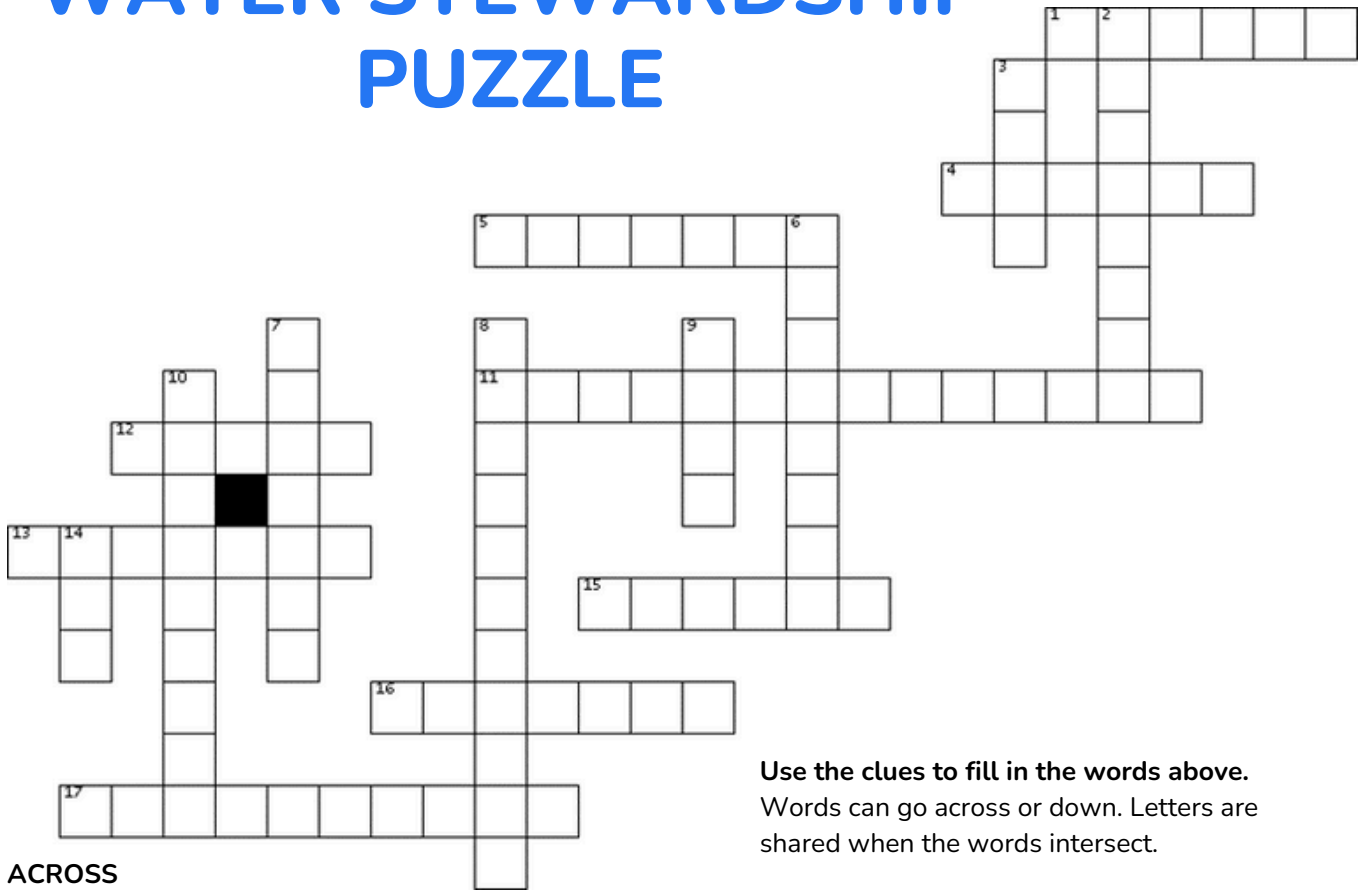
Handwashing dishes (~20 gallons)

1 Plastic water bottle (~1.4 gallons)

1 cup of orange juice (~49 gallons)



WATER STEWARDSHIP PUZZLE



Use the clues to fill in the words above.
Words can go across or down. Letters are shared when the words intersect.

ACROSS

- I can make sure all of my _____ goes where it belongs, either in the trash or in the recycle can.
- What types of plants are best to put in your garden and landscape with to save water?
- An underground bed of saturated soil or rock that yields significant quantities of water.
- It is your _____ to pick up after your dog.
- The water _____ is at the top of an unconfined aquifer; indicates the level below which earth materials are fully saturated with water.
- This adds air and water together to create more pressure and use less water in your sinks.
- While waiting for your shower to heat up or cool down, collect the water in a _____ and water your plants with it instead of letting it go down the drain.
- Replace this in your toilet tank every so often to prevent silent leaks.
- Chemicals like _____ and herbicides, when not used properly can poison our groundwater.

DOWN

- Water used in the process of making something else or to provide a service is called _____ water use.
- Even if it is dripping very slowly, a _____ can waste a lot of water and needs to be fixed.
- A _____ bag is better than using a single use plastic bag when possible.
- On average one person uses 120 _____ of water in a day?
- Water found in spaces and pores between earth materials.
- What can waste up to 9-30 gallons a minute when water is left running?
- What materials must be disposed of properly so harmful chemicals don't get into our water?
- What kind of _____-friendly products can you try to buy that use less water and are more sustainable for our planet?