National Association of Conservation Districts
Stewardship Week April 30 - May 7th 2023

# One Water

## Why? ONE WATER?

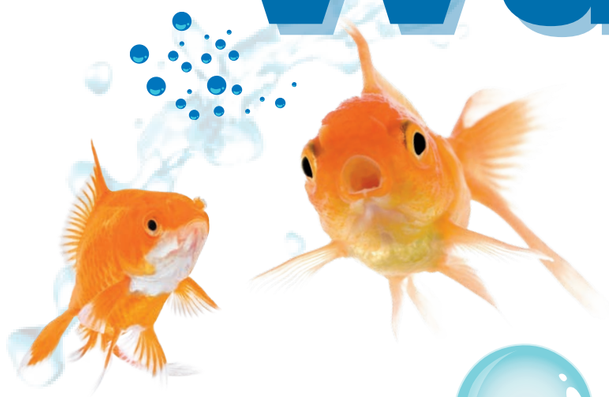
No matter where you live, play, or work, clean water is a critical and valuable resource.

You OTTER learn more about this North American mammal!
U.S. Fish and Wildlife

## Who? USES WATER?

**Humans, plants and animals!**

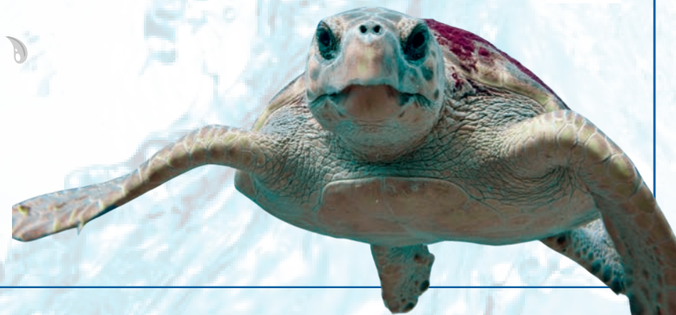
Every living being uses water!



## What is? STEWARDSHIP

**noun /ˈstōōərdˌSHip/**
**the job of supervising or taking care of something, such as an organization or property.**
**Example: "responsible stewardship of our public lands"**

## How much? of the earth is water? 71%



Learn More about the LOGGERHEAD TURTLE
U.S. Fish and Wildlife

IT'S ALL FUN AND GAMES!

What happens when you tell a duck a funny joke?

Answer: They quack up.

Find a youth event near you!
Ducks Unlimited
Conserving Wetlands & Waterfowl

## Do you? USE WATER WISELY?

When you use water wisely, you help the environment

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One Water
Stewardship Week 2023

# ONE WATER

A WATERSHED is an area of land that channels rainfall and snowmelt to creeks, streams, and rivers, eventually leading to outflow points such as reservoirs, bays, and the ocean. Those bodies of water are all connected, so every drop that falls becomes part of **ONE WATER**.

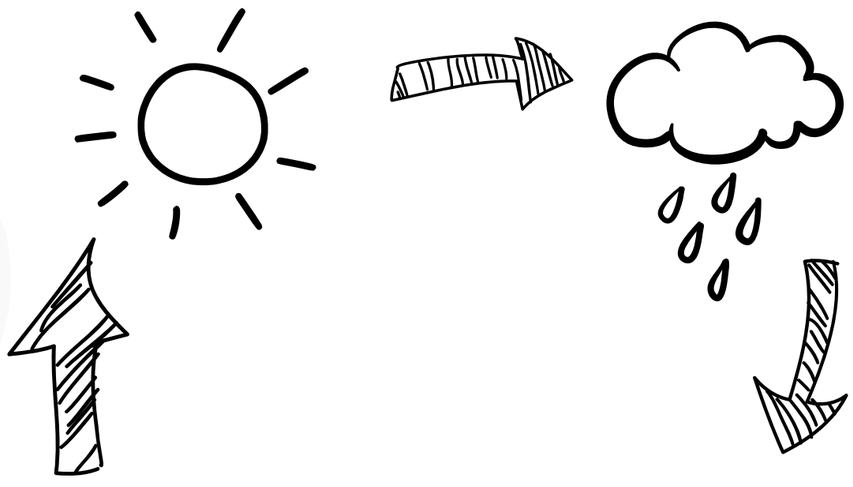
Watersheds can be any size and usually have some high points of land like hills, mountains, or ridges. When rain, sleet, or snow falls to the ground, the precipitation runs from those higher points to the lower ends. Gravity pulls the water downhill until it reaches a body of water.

Figure A - The Water Cycle

If the land in the watershed is steep, the water usually runs off into rivers or streams. If the ground in the watershed is level, the water will slowly flow into lakes or ponds, seep into the soil, and add to groundwater. If the watershed is close to the ocean, then tidal marshes, estuaries, and wetlands will be part of the watershed.

## DEFINE YOUR WORDS

| COLLECTION | PRECIPITATION | RUNOFF | CONDENSATION | EVAPORATION |
|---|---|---|---|---|
| The streams and rivers empty into larger bodies of water, like ponds, lakes, and the ocean. | When the air that the clouds are in can no longer hold any more water, the droplets fall down together as rain. If the air is cold enough, the rain turns to snow. | The water that falls down onto the Earth's surface always seeks lower ground. The water forms into streams and rivers and runs down to lower elevation. | Once the vapor is high in the air, it cools and forms back into tiny droplets of water. These droplets cling together and form clouds, fog, and mist. | The warmth of the sun causes the water in the ocean, lakes, ponds, soil, and snow to turn into a vapor (gas) which rises into the atmosphere. |



I live in the _____ watershed.

Water soaks through the soil until it reaches groundwater, which moves through underground spaces in soil and rock. A lot of the water we use and drink daily comes from ground moisture. As it rains and the water runs off, it collects in rivers, lakes, and oceans and then returns to the atmosphere to fall as rain somewhere else.

All land on earth is a watershed; therefore, we all live in a watershed. We share the water in our watershed with other humans, animals, and plants because it is all **ONE WATER**.

Draw the watershed that you live in! Do you live near a river? The ocean or maybe the desert? Can you see mountains or do you get a lot of snow? Are there tress around or maybe a prairie? Do you live on a farm or in the city? Use figure A to give you clues!

## MAKE A Water Cycle Experiment!

**You will need:**

Zipper sandwich bag
Permanent marker
1/4 cup water
Blue food coloring
Tape

1. Smooth bag out on a flat surface.
2. Draw, color and cut out your water cycle picture
3. Tape it to the back of the bag.
4. Place bag inside of a cup.
5. Add 1/4 cup of water.
6. Add one drop of food coloring into the water.
7. Tape your bag on a sunny window at a slight angle.

The angle is how the water will shed! Don't forget to write your name on it with the permanent marker!

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| H | R | A | Q | V | E | S | Q | E | U | X | M | M | S | C |
| A | P | A | U | B | O | T | O | C | E | A | N | P | T | F |
| Y | F | J | I | O | R | K | A | I | E | U | H | R | R | U |
| G | Z | I | W | N | A | I | C | L | R | L | U | T | E | O |
| E | T | A | R | O | P | A | V | E | U | N | C | D | A | A |
| W | Z | Z | S | S | M | R | T | E | O | C | J | Y | M | F |
| V | E | H | U | E | I | A | C | F | R | C | R | H | C | G |
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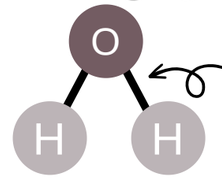
air
cloud
drink
evaporate
rain
sea
stewardship
sun
aquifer
condensation
drops
ice
river
snow
storm
underground
circulate
cycle
energy
ocean
runoff
soak
stream
water

## What is the chemical symbol for water?

$H_2O$




What is the structure of a water molecule?

A water molecule consists of two hydrogen atoms and one oxygen atom.

Scan here for rules, entry forms, and other NACD Stewardship contest information. NACD Stewardship Week is held from April 30 to May 7, 2023. Stewardship Week materials should be used for educational purposes only.

National Association of Conservation Districts



**CONNECTIONS WITH NEXT GENERATION SCIENCE STANDARDS (NGSS) Earth's Systems MS-ESS2-4.**
Develop a model to describe the cycling of water through Earth's systems driven by energy from the sun and the force of gravity. Create a model of the water cycle to observe and identify the different parts of the cycle and how that relates to Earth's systems.