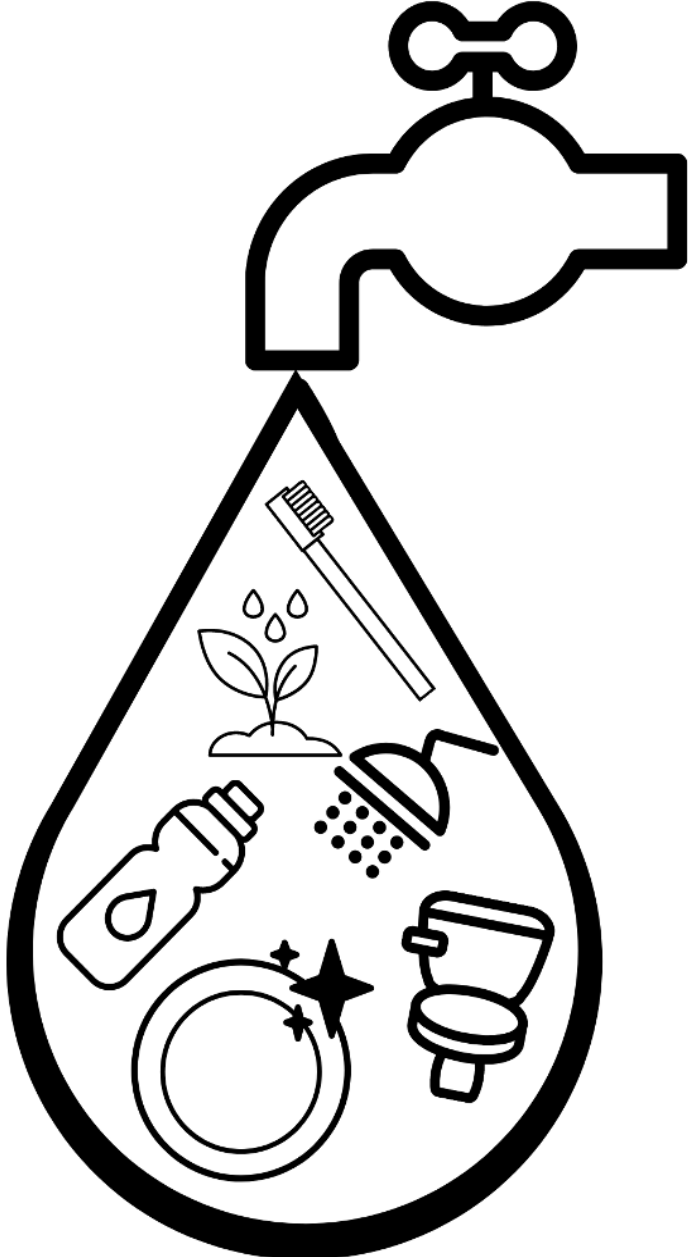



Water Supply Activity Book




The Water Cycle


Did you know that the water that you see every day has existed on this planet for billions of years? It is the same water that existed when dinosaurs roamed the Earth. Water is never created or destroyed, it is recycled over and over again into different forms. Have you ever seen an ice cube melt on the hot ground, or wet dishes drying on a rack? It might be surprising, but you are witnessing water being recycled. This process is called the **water cycle**.


There are different stages of the water cycle, including:

Evaporation  Liquid water turns into gas and enters the atmosphere

Transpiration  Water stored in plant leaves is released into the air

Condensation  Water turns from a gas to a liquid, forming clouds

Precipitation  Collected water droplets become too heavy for the clouds, and fall to the ground as rain or snow

Runoff  Water flows into a river, lake, or ocean

Fill-in-the-Blanks

DIRECTIONS: Match the stages of the water cycle (condensation, evaporation, precipitation, runoff, and transpiration) with the correct places in the image below.



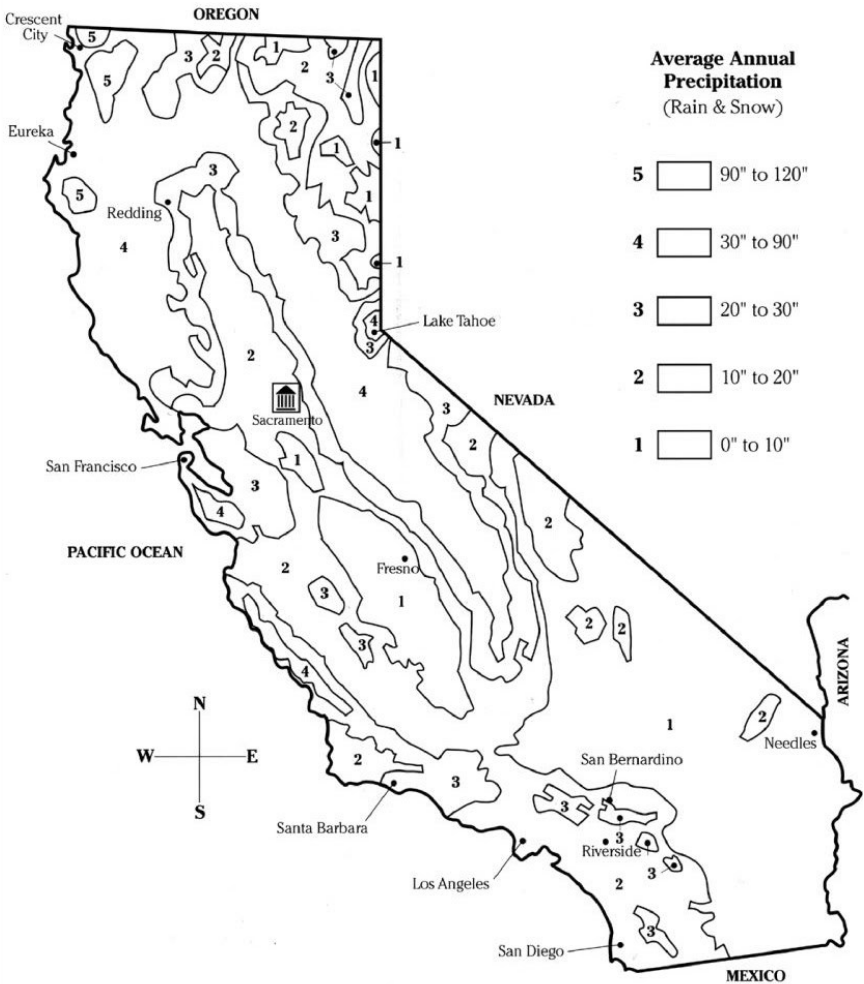
SCIENCE AT HOME

Grab a cup and add a few drops of water. Place the cup outside in the morning and come back in the afternoon for observations. Is there any water remaining in the cup? Where did the water go? What stage of the water cycle do you think you observed?

Mapping Precipitation

Water constantly moves through the water cycle, but does that mean everywhere receives the same amount of rain? Let's find out! The map below shows how much **precipitation** different parts of California get each year.

DIRECTIONS: Color each number (1-5) with a different color. Then, answer the questions on the next page.



Source: Metropolitan Water District of Southern California

Based on the map you colored...

- What category is San Diego in (1-5)? _____
- According to the key, how much precipitation does San Diego get each year? _____
- What part of the state gets more precipitation: Northern California or Southern California? _____
- If we brought water from the wetter part of the state to the drier part, which direction would it go in? (circle one)

North to South

OR

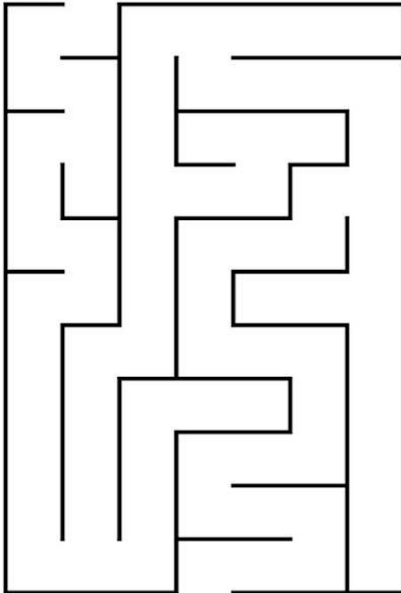
South to North

Water Journey

Over 80% of San Diego's water is imported from far away sources. Can you help the water get from its source to your tap

in San Diego? Trace a line through the maze to find your way out!

START ↓



↑ END



SAN DIEGO
COASTKEEPER

Water Use

Did you know that most San Diegans use about 88 gallons of water a day? We use water for drinking, cooking, cleaning ourselves and our clothes, growing plants, and caring for our pets. Our everyday activities often use more water than we think.

DIRECTIONS: Each jug represents one gallon of water. Color in how many gallons you think each activity uses.



Water Conservation

Water is vital to people, wildlife, and plants. We want to make sure there is enough for all life, so we try to **conserve**, or not waste, water.

DIRECTIONS: Compare the two activities. For each row, circle the option that uses less water.

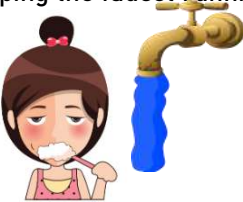
Five minute showers



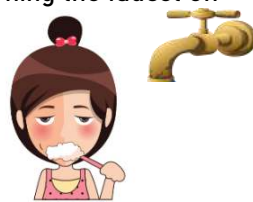
Ten minute showers



Keeping the faucet running



Turning the faucet off



Washing a full load of dishes



Washing a partial load of dishes



SCIENCE AT HOME

For a week, set a timer each time you shower. Are your showers longer than you thought? Shorter? For each minute in the shower, roughly **2 gallons of water** are used. Next week, challenge yourself to shorten your shower by a minute each day. Calculate how much water you save.

PLEDGE FOR CLEAN WATER

Now that you have learned about water conservation, you can take action to make a difference. Think about at least one new thing you will do to save water, then sign the pledge below. Thank you for being water wise!

I promise to use water wisely. I will practice water conservation by:

- Turning off the tap when washing my face, brushing my teeth, or washing the dishes.
- Taking shorter showers to save water.
- Only using the water I need.
- Sharing what I know with others.

Signed,

