

Changes in the State of Water and the Water Cycle

A. Fill in the Blanks

Word Bank: **Condensation** **Sun** **Precipitation** **Collection** **Evaporation**

1. The _____ heats up water in oceans and lakes.
2. The process of water turning into water vapor is called _____.
3. _____ is when water vapor cools and forms clouds.
4. Rain, snow, or hail falling from the sky is called _____.
5. _____ is when water gathers in oceans, rivers, and lakes.

B. Match the Following;

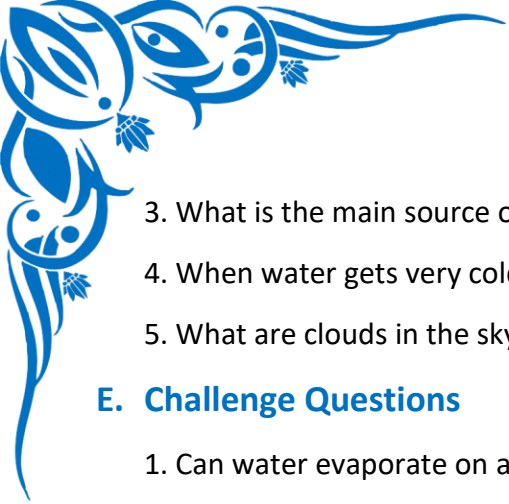
Column A (Process)	Column B (Description)
1. Melting	A. Water vapor turns back into liquid water.
2. Freezing	B. Water falls from the clouds as rain or snow.
3. Evaporation	C. Liquid water turns into a solid (ice).
4. Condensation	D. A solid (ice) turns into liquid water.
5. Precipitation	E. Liquid water turns into a gas (water vapor).

C. Practice Problems

1. What happens to a puddle of water on the sidewalk on a hot, sunny day? Which process is this?
2. What is the name for the process when water vapor in the air gets cold and changes back into liquid water, forming clouds?
3. When the water droplets in a cloud get too heavy, they fall to the Earth. What is this process called?
4. If you put an ice cube on the kitchen counter, it will slowly turn into liquid water. What is this process called?
5. After it rains, water flows into rivers, lakes, and oceans. What is this stage of the water cycle called?

D. Warm-up Questions

1. What are the three states (or forms) of water?
2. What do we call water in its solid state?



3. What is the main source of energy that drives the water cycle?
4. When water gets very cold and turns into a solid, what is this process called?
5. What are clouds in the sky made of?

E. Challenge Questions

1. Can water evaporate on a cool, windy day? Why or why not?
2. If the water cycle completely stopped, what are two things that might happen to our planet?
3. Why is the water cycle called a "cycle"?
4. On a very cold winter day, you can see your breath. Which part of the water cycle does this look like? Explain why.
5. Where on Earth would you find the most water in its solid state (ice)?

F. Word Problems & Application

1. Leo bought a frozen ice pop. He left it on the picnic table in the sun while he went to play. When he came back, his ice pop was a puddle of sticky juice. What process happened to his ice pop?
2. Maria's mom is boiling a pot of water to make pasta. Maria sees steam rising from the pot. The steam is water turning from a liquid into a gas. What is this process called?
3. After a big rainstorm, a huge puddle formed in Sam's backyard. The next day was very sunny, and by the afternoon, the puddle was gone. Where did the water go?
4. Tia wants to make ice cubes for her juice. She fills an ice cube tray with water and puts it in the freezer. A few hours later, she has solid ice cubes. What process turned the water into ice?
5. On a cool morning, the grass is covered in tiny water droplets called dew, even though it didn't rain overnight. What process caused this to happen?

G. True or False

1. Freezing is when water turns from a solid to a liquid. _____
2. Clouds are made of heavy gas. _____
3. The sun's heat causes condensation. _____
4. Rain and snow are forms of collection. _____
5. The three states of water are solid, liquid, and air. _____