

States of Matter

Week 6 — Friday | States of Matter in the Real World

Reading Time: Water Changes States

Water is amazing because it can exist in **all three states of matter**. You have probably seen water as a solid (ice), a liquid (water), and a gas (steam or water vapor).

When water gets very cold, it freezes into ice — a **solid**. When ice warms up, it **melts** into liquid water. When liquid water gets very hot, it **evaporates** into water vapor — a **gas**.

This is called the **water cycle**. Water in oceans evaporates into the air as water vapor. The vapor cools and forms clouds (tiny liquid droplets). Then it falls back to Earth as rain or snow.

Every day you see states of matter changing. When you boil water for pasta, you see steam (gas). When you leave a glass of water in the sun, it slowly evaporates. When you make ice cream, liquid turns into a solid!

Reading Questions

1. What are the three states that water can exist in?

2. What happens to water when it gets very cold?

3. What does "evaporate" mean?

4. Describe one way you have seen water change states.

Vocabulary Grid

Write a definition or draw a picture for each word.

Melt

Evaporate

Freeze

Water Cycle

States of Matter Review

Write S (solid), L (liquid), or G (gas) for each item.

Item	State	Can it change states? (Y/N)	What changes it? (Heat or Cold)
Snowflake			
Rain			
Steam			
Butter in a pan			
Frozen juice			
Air in a tire			

Match the Change

Match each change to the correct description.

Change	What Happens	Example
Melting		
Freezing		
Evaporating		

Draw the Water Cycle

Draw a picture showing water changing between all three states. Label each state.

Think About It

1. Why do you think water can exist in all three states of matter?

2. If you put a hot cup of cocoa outside on a cold day, what states of matter can you see? Explain.

True or False

- ☐ 1. Water can exist as a solid, liquid, and gas.
- ☐ 2. Melting means changing from a liquid to a solid.
- ☐ 3. Steam is water in its gas form.
- ☐ 4. Freezing happens when water gets very hot.
- ☐ 5. The water cycle shows water changing states.

Fill in the Blanks

Word Bank:

melts

freezes

evaporates

solid

liquid

gas

- 1. When ice gets warm, it _____.
- 2. When water gets very cold, it _____ into ice.
- 3. When water gets very hot, it _____ into a _____.
- 4. Ice cream is a _____, but it can become a _____ when it gets warm.

Kitchen States Challenge

Think about your kitchen. Can you name items that **change states**?

Starts as...	Becomes...	What causes the change?
Ice cubes		
Boiling water		
Melted butter		

Week 6 Review Quiz

1. What are the three states of matter?

2. How do solids, liquids, and gases differ from each other?

3. Give one example of each state of matter from your daily life.