

States of Matter: Changes with Temperature

READ ALOUD PASSAGE

Matter can change from one form to another when the temperature changes. When something gets warm enough, it can change from a solid into a liquid. This is called melting. Ice is a solid. When ice gets warm enough, it melts into liquid water.

When something gets cold enough, a liquid can change into a solid. This is called freezing. Liquid water freezes into ice when the temperature drops low enough. Butter and chocolate can melt and freeze too.

A liquid can also turn into a gas. This is called evaporation, and it happens faster when the liquid is hot. When water boils, it turns into a gas called water vapor and floats away into the air. Water vapor is invisible. The cloudy steam you see above a pot is tiny drops of water forming as the vapor cools.

All of these changes, melting, freezing, and evaporation, are changes in matter. The word matter means anything that has weight and takes up space. Solids, liquids, and gases are all forms of matter. Heat and light are not matter. They have no weight and do not take up space.

Activity 1: Word Sort Challenge

Sort the words in the box. Write each word under the right heading.

WORD BANK

steam butter floats cools melts pot freezes ice boils chocolate

Nouns

Verbs

Activity 2: Statement or Question?

Read each sentence. Write S if it is a statement or Q if it is a question. Then add the correct end mark on the line.

- ☐ 1. Ice melts when it gets warm ____
- ☐ 2. What happens when water boils ____
- ☐ 3. Does butter freeze ____
- ☐ 4. Water vapor is invisible ____

Activity 3: Grow a Sentence

This sentence is very short. Answer each question to add more information. Then put your answers together into one longer sentence.

START WITH THIS SENTENCE **Ice melts.**

When?

Where?

Why?

Write your expanded sentence:
