

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.

When a liquid gets hot enough, it can turn into a gas. This is called evaporation. When water boils, it turns into a gas called water vapor and floats away into the air. You can see this as steam.

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

Because / But / So Complete each sentence three different ways.

Matter can change from one form to another because

.....

Matter can change from one form to another but

.....

Matter can change from one form to another so

.....

Activity 2

Fill in the blank with the correct word from the word box.

WORD BOX

melting freezing evaporation matter weight

1. When a solid gets warm enough and becomes a liquid, that is called _____.
2. When a liquid gets cold enough and becomes a solid, that is called _____.
3. When a liquid gets very hot and turns into a gas, that is called _____.
4. Anything that has weight and takes up space is called _____.
5. Heat and light are not matter because they have no _____.

Activity 3

Put the words in the correct order to make a complete sentence. Add correct capitalization and punctuation.

1. solid / melting / into / a / a / liquid / called / changing / is

2. when / it / water / boils / turns / vapor / called / a / gas / water / into

Activity 4

Combine the short sentences below into one smooth sentence.

1. · Melting happens when a solid gets warm enough.
 · The solid becomes a liquid.

Combined sentence:

2. · Freezing happens when a liquid gets cold enough.
 · It turns into a solid.

Combined sentence:
