

Use with textbook pages 246–253.

Expand and contract

Vocabulary

condensation	melting
contracts	move around quickly
deposition	rises
evaporation	slide past each other
expands	slower
falls	solidification
faster	state of matter
kinetic molecular theory	sublimation
mass	vibrate
matter	volume

Use the terms in the vocabulary box to fill in the blanks. Use each term only once. You do not need to use all the terms.

- _____ is the amount of material that makes up something.
_____ is the amount of space that a material takes up.
Anything that has mass and volume is called _____.
- When you add energy to matter, its temperature _____.
- _____ is the process of a solid changing to a liquid.
_____ is the process of a solid changing directly to a gas.
- _____ is the process of a liquid changing to a gas.
_____ is the process of a liquid changing to a solid.
- _____ is the process of a gas changing to a liquid.
_____ is the process of a gas changing to a solid.
- Particles in a solid are packed so close together they can only _____.
Particles in a liquid can _____.
Particles in a gas can _____.
- When you remove energy from particles they move _____ and the matter _____.
- The _____ explains how particles act when their spacing and movement change.

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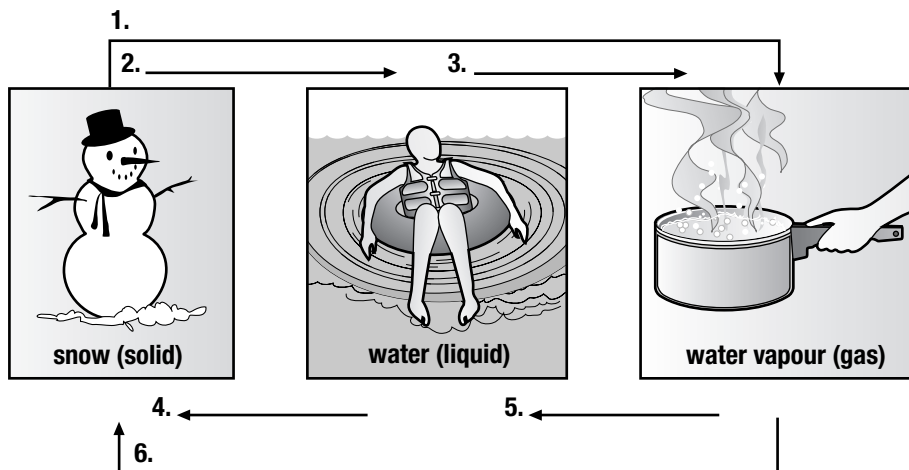
What's the matter?

Vocabulary

condensation
deposition
evaporation

melting
solidification
sublimation

Use the terms in the vocabulary box to label the diagram. Place the terms on the numbered arrows.



Complete the following table by describing the change of state. The table has been partially completed to help you.

	Change of state	Heat added or released
condensation		released
deposition		
evaporation	liquid to gas	
melting		added
solidification		
sublimation		