

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.

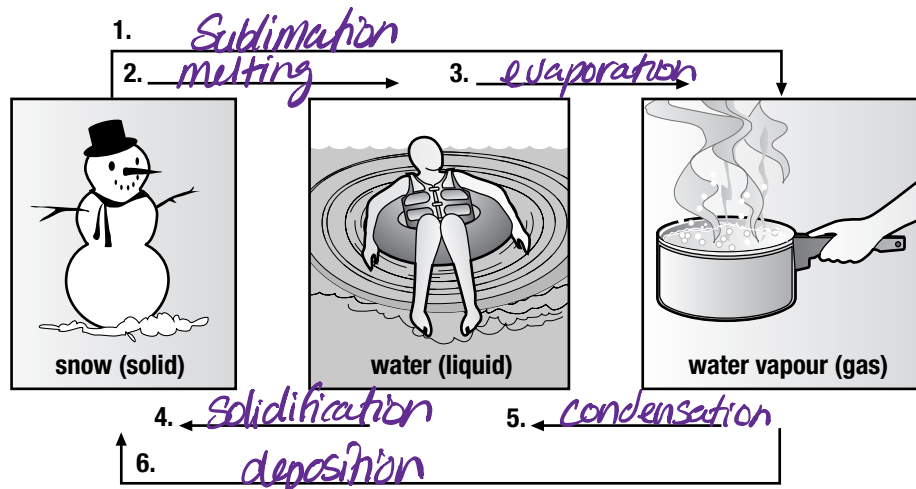
1. mass is the amount of material that makes up something.
volume is the amount of space that a material takes up.
 Anything that has mass and volume is called matter.
2. When you add energy to matter, its temperature rises.
3. melting is the process of a solid changing to a liquid.
sublimation is the process of a solid changing directly to a gas.
4. evaporation is the process of a liquid changing to a gas.
solidification is the process of a liquid changing to a solid.
5. condensation is the process of a gas changing to a liquid.
deposition is the process of a gas changing to a solid.
6. Particles in a solid are packed so close together they can only vibrate.
 Particles in a liquid can slide past each other.
 Particles in a gas can move around quickly.
7. When you remove energy from particles they move slower and the matter contracts.
8. The kinetic molecular theory explains how particles act when their spacing and movement change.

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What's the matter?

Vocabulary	
condensation	melting
deposition	solidification
evaporation	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	<i>gas to liquid</i>	released
deposition	<i>gas to solid</i>	<i>released</i>
evaporation	liquid to gas	<i>added</i>
melting	<i>solid to liquid</i>	added
solidification	<i>liquid to solid</i>	<i>released</i>
sublimation	<i>solid to gas</i>	<i>added</i>