**States of Matter**

1. Read the paragraph below. Underlineany solids, circle any liquids, and box any gases

*The water begins to bubble. Steam rises from the pot. You want your hot chocolate, but it is too hot to drink. You don’t want to wait for it to cool down. So, you add an ice cube. You watch the ice melt in the hot liquid until the drink is just the right temperature.*

1. What are the names for the three different states of water?
2. In the space below, draw what you think the particles of the three states of water look like.



1. A **solid** is a state of matter that has a \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ shape and volume.
2. The attraction between a solid is \_\_\_\_\_\_\_\_\_\_ than the attraction between the particles of the same substance in a liquid or gaseous state.
3. The only type of movement particles in a solid do is \_\_\_\_\_\_\_\_\_\_\_\_\_.
4. A **liquid** is a state of matter that has a \_\_\_\_\_\_\_\_\_\_\_\_\_\_ volume but takes the \_\_\_\_\_\_\_\_ of its container.
5. Solids vibrate, but the motion of a liquid could be describe as the particles \_\_\_\_\_\_\_\_\_\_\_ past each other.
6. A **gas** is a state of matter that has no definite \_\_\_\_\_\_\_\_\_ or \_\_\_\_\_\_\_\_\_.
7. The particles of a gas have \_\_\_\_\_\_ attraction between them than do particles of the same substance in the solid or liquid state.
8. One property that all particles of matter have in common is they
	1. Never move in solids
	2. Only move in gases
	3. Move constantly
	4. None of the above