States of Matter Notes

Solid

- Atoms & molecules are closely locked in place
- Form a pattern (reduces energy)
- Vibrate only

Liquid

- A & M can collide & move past each other

Gas

- A & M move independently
- Collide frequently & randomly
- With each other & objects
- Distance between A & M is greater

Melting Point

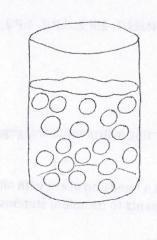
- Temperature solid becomes liquid
- Heat absorbed
- A & M gain enough energy
- Start sliding past each other (flow)

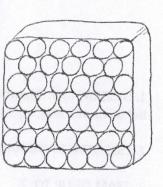
Boiling Point

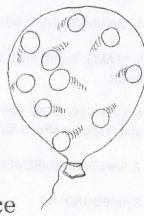
- Temp liquid becomes gas
- Heat absorbed
- A & M gain enough energy
- Escape as a gas

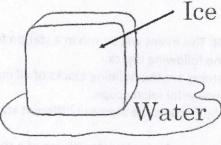
Freezing Point

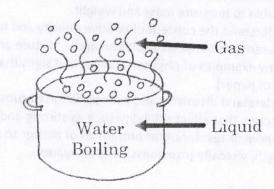
- Temp liquid becomes solid
- Heat released
- A & M loose energy
- Become locked in place

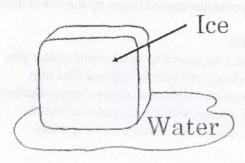












Solids, liquids and gases

Use the words in the box below to complete these sentences

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Every material is made up of lots of
particles. All materials are either solid, liquid or a
all the particles are
packed tightly together and can hardly move. A solid stays in
its own unless we cut it or shape it ourselves. Anything
you can take hold of is a
The in a liquid are not so tightly packed. They
can a little. Liquids are and flow
downwards. They take the shape of the they are
in. The surface of a liquid stays
The particles in have lots of room and move around all
over the place all the time. Gases are all us
spreading into any empty spaces they can. Most gases are
gases particles move shape solid runny tiny gas solid invisible around level container



- 1. What happens to a substance when it reaches its freezing point?
 - e. It changes from liquid to solid; heat is absorbed.
 - f. It changes from liquid to solid; heat is released.
 - g. It changes from solid to liquid; heat is absorbed.
 - h. It changes from solid to liquid; heat is released.
- 2 What occurs when a substance melts?
 - i. It changes from solid to liquid; heat is absorbed.
 - j. It changes from solid to liquid; heat is released.
 - k. It changes from liquid to solid; heat is absorbed.
 - I. It changes from liquid to solid; heat is released.
- 5. When a substance is made up of constantly vibrating particles arranged in a regular geometric pattern, the substance is classified as what?
 - a. Solid
 - b. Liquid
 - c. Gas
 - d. Plasma

