



What is the Matter?

CHANGING STATE

Solids, liquids and gases are called the three states of matter. Materials can be changed from one state to another by heating or cooling.

Heating

If ice (solid) is heated, it changes to water (liquid). This change is called melting.

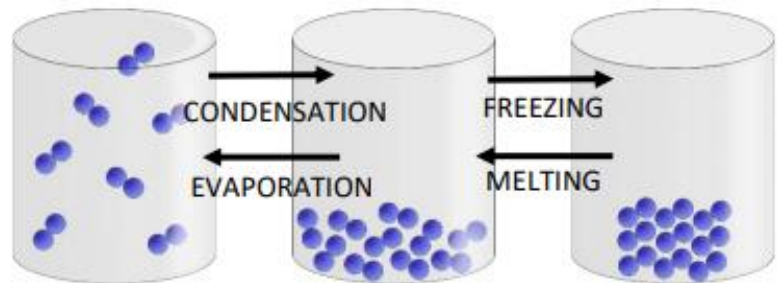
Water (liquid) can change to water vapour (gas). This is called evaporation.

If water (liquid) is heated until it boils, it changes to water vapour (gas) very quickly. Water boils at 100°C.

Cooling

If water vapour (gas) is cooled, it changes to water (liquid). This change is called condensing.

If water (liquid) is cooled, it changes to ice (solid). This change is called freezing. Water freezes at 0°C.



G _____

L _____

S _____

Examples

Steam (water vapour)
Hydrogen
Carbon Dioxide
Oxygen

Examples

Water
Milk
Washing up liquid

Examples

Ice
Wood
Glass
Diamond

Can you think of anymore examples? Add one more example for each.

FEATURES		
SOLIDS		GAS
SOLIDS _____ THEIR SHAPE (Salt, sand and sugar are tiny solids so they pour like liquid but they pile up and are not wet)	_____ FORM A POOL NOT A PILE	_____ ESCAPE FROM AN UNSEALED CONTAINER AND FILL THE ENTIRE VOLUME OF SPACE

Key Vocabulary

melt	This is when a solid changes to a liquid .
freeze	Liquid turns to a solid during the freezing process.
evaporate	Turn a liquid into a gas .
condense	Turn a gas into a liquid .
precipitation	Liquid or solid particles that fall from a cloud as rain, sleet, hail or snow.

