Solids, Liquids and Gases knowledge organiser



ESSENTIAL SOLIDS, LIQUIDS AND GASES VOCABULARY		
solid	Materials that keep their shape unless a force is applied to them.	
liquid	Liquids take the shape of their container. They can flow or be poured.	
gas	Gases can spread out to fill the container they are in. They have no fixed shape.	
condense	The process when gases change state into liquids.	
degrees Celsius	The unit we measure temperature in.	
temperature	How hot or cold something is.	
changing state	The process of changing one state of matter into another.	
heating	When you raise the temperature of something.	
cool	When you lower the temperature of something.	
water cycle	The continuous journey of water from oceans and lakes, to clouds, to rain, to streams, to rivers and back into the ocean again.	

States of Matter

There are three states of matter that materials can be-solids, liquids or gases. Some materials are able to change to and from different states.

Solid	Liquid	Gas
Particles are very close together. They can vibrate, but not move.	Particles are close together, but can move around easily.	Particles are spread out. They can move around freely and quickly
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Changes of State

Most solids can be changed to a liquid of gas by changing its temperature. The boiling point and freezing point is at different temperatures for different substances.

The solid melts to become a liquid. The liquid evaporates to become a gas. The gas deposits to become a solid.

The changes also occur in the opposite direction.

The solid sublimates to become a gas. The gas condenses to become a liquid. The liquid freezes to become a solid.

MAKING LINKS TO PREVIOUS LEARNING GOLDEN VOCABULARY			
Materials	The material is what the object is made from.		
Arctic and Antarctic	The polar ice caps are at risk of melting.		