		Science	States of Matter	Ruby Class	Autumn Term 2 2021
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Key Knowledge					
Types of Ma	Types of Materials				
Solids	Stays the same shape				
	Can be held in your hands				
	Can be cut into a new shape				
	Examples – wood, metal, rock, ice				
Liquids	Flows and can be poured				
	Changes shape to its container				
	Volume never changes				
	Examples – water, juice, oil				
Gases	Often invisible				
	Always fills its container				
	Shape & volume change				
	Examples – oxygen, hydrogen,				
	carbon dioxide				
What does	When a material changes from				
changes of	one material type to another, we				
state	say 'it has changed state.'				
mean?					

Key Vocabulary	Key Vocabulary				
Word	Definition				
Temperature	How hot or cold something is.				
	Measured in degrees Celsius.				
Celsius	The common scale in the UK for				
	measuring temperature.				
Particle	A tiny amount of something. You				
	can't see them with your eyes!				
Melting	The process of a solid heating				
	and changing into a liquid.				
Evaporation	The process of a liquid heating				
	and changing into a gas.				
Condensation	The process of a gas cooling and				
	changing into a liquid.				
Freezing	The process of a liquid cooling				
	and changing into a solid.				
Precipitation	When water or snow fall from a				
	cloud				
Boiling	To become so hot (100°C) that				
	water bubbles and then turns				
	into a gas.				

Changes of State							
Solid to Liquid	A solid melts and changes to a liquid.	Melting	The wax melted as the candle burned.				
Liquid to Gas	A liquid evaporates into a gas when heated.	Evaporation	When water evaporates, it becomes water vapor.				
Gas to Liquid	When a gas is cooled it condenses into a liquid.	Condensation	The condensation of steam from the boiling tea kettle made the window fog up.				
Liquid to Solid	When a liquid freezes it becomes a solid.	Freezing	When water turns into ice.				



