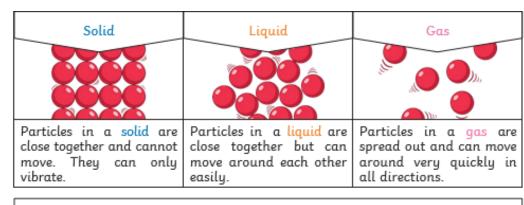
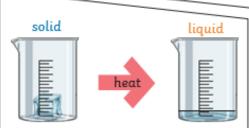
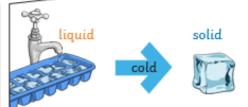
Class 3 Spring 2 2022	States of Matte	r — Solids, Liquids and Gases	Science Knowledge Organiser	
Key Facts — What you need to kno	ow	Key Vocabulary	Pictures and diagrams	
 Compare and group materials tog according to whether they are sol liquids or gases. Solids, liquids and gases can be ided by their observable properties. Solids have a fixed size and shape and shape can be changed but it real the same after the action). Liquids can pour and take the shape container in which they are put. Liquids form a pool not a pile. Solids in the form of powders can they were liquids but make a pile pool. Gases fill the container in which they ut. Gases escape from an unsealed comput. Gases can be made smaller by squeezing/pressure. Liquids and gases can flow. How do humans affect the water of the water of	ether, ids, lentified (the size remains ape of the pour as if not a hey are intainer. States of Matter Matter Solids Liquids Gases	Materials can be one of three states: solids, liquids or gases. Some materials can change from one state to another and back again. These are materials that keep their shape unless a force is applied to them. They can be hard, soft or even squashy. Solids take up the same amount of space no matter what has happened to them. Liquids take the shape of their container. They can change shape but do not change the amount of space they take up. They can flow or be poured. Gases can spread out to completely fill the container or room they are in. They do not have any fixed shape, but they do have a mass. Turn a liquid into a gas. When	Evaporation Evaporation occurs when water turns into water vapour. This happens very quickly when the water is hot, like in a kettle, but it can also happen slowly, like a puddle evaporating in the warm air. Condensation	
affecting water around the world? Freeze/ freezing Liquid turns to a solid the freezing process.		water turns into water vapour. This is water that takes the form of a gas. When water is boiled, it evaporates into a water vapour.		
Condensation Turning from a gas int When water vapour co turns into water.	o a liquid. Melt/melting ols and	This is when a solid changes to a liquid.	when water vapour is cooled down and turns into water. You can see	
Precipitation Liquid or solid particle from a cloud as rain, s or snow. Particle The tiny things that all materials are made fro smallest unit of matter	leet, hail m. The	Crawford Village Primary School	this when droplets of water form on a window. The water vapour in the air cools when it touches the cold surface.	



When water and other liquids reach a certain temperature, they change state into a solid or a gas. The temperatures that these changes happen at are called the boiling, melting or freezing point.



If a solid is heated to its melting point, it melts and changes to a liquid. This is because the particles start to move faster and faster until they are able to move over and around each other.



When freezing occurs, the particles in the liquid begin to slow down as they get colder and colder. They can then only move gently on the spot, giving them a solid structure.

