Year 4: Science States of Matter Knowledge Mat

Subject	Specific Vocabulary	States of Matter	Important knowledge
solid	The state of something whose particles do not move freely. It has a fixed shape.		☐ I know how to compare and group materials together, according to
liquid	The state of something whose particles move freely whilst maintaining some relationship to each other so that it's volume remains constant but it's shape changes dependent upon the container.		whether they are solids, liquids or gases. I know about changes in state e.g. solid to liquid or liquid to gas.
gas	The state of something whose particles move freely of each other.	Gas Liquid Solid	 I know that some materials change state when they are heated or cooled. I know the temperature at which changes of state happen in degrees Celsius (°C).
state of matter	A phrase used to describe the physical properties of something: solid, gas or liquid.	The Water Cycle	 □ I know about evaporation in the water cycle. □ I know condensation in the water cycle.
particle	Tiny bits of matter that make up everything in the universe.		I know the link between the rate of evaporation with temperature I can decide what observations to
compressed	Pressing something into a smaller space.	sun	make. I can record my observations, data and results using clear scientific vocabulary and symbols - in tables and
vapour	Tiny particles of liquid or solid help in a gas.	rain	diagrams. I can explain why something has happened using correct scientific vocabulary.
precipitation	Water that falls to the earth as hail, mist, rain, sleet, or snow.	precipitation condensation	 I can compare my results with others and give reasons why they might be different. I can make a prediction and give a
condensation	A process which causes a substance to change from a gaseous state to a liquid state.	rivers and streams evaporation ground run-off	reason, making links to what I already know.
evaporation	A process which causes a substance to change from a liquid state to a gaseous state.		