National curriculum objectives Scope: Coherence:
according to whether they are solids, liquids or gases o observe that some materials change state when they are heated or cooled, and measure or research the temperature at which this happens in degrees Celsius (°C) identify the part played by evaporation and condensation in the water cycle and associate the rate of evaporation with temperature Misconceptions: water melts ice freezes metals are only in the solid state things can only evaporate when they have been boiled steam and water vapour are the same condensation is when air turns to water water that evaporates has disappeared into the air what are the states of matter? Can we turn a solid into a liquid? Mak is the opposite of melting? Can we turn a solid into a liquid? Mak is the opposite of melting? Can we turn a solid into a liquid? Mak is the opposite of melting? Can we turn a solid into a liquid? Mak is the opposite of melting? Can we make rain? Can
tungsten filament • Anders Celsius — Celsius measurement of temperature

Builds on:	Future learning:	Further reading:
Year 2:	Year 4:	Change it, solids, liquids and
• identify and compare the suitability of a variety	The speed of sound through different materials	gases and you – Adrian Mason
of everyday materials, including wood, metal,	Lack of matter in space (vacuum)	
plastic, glass, brick, rock, paper and cardboard		States of matter - science in a
for particular uses	Year 5:	<u>flash</u> – Georgia Amson-
 find out how the shapes of solid objects made from some materials can be changed by squashing, bending, twisting and stretching 	 Changes and Properties and changes of materials - use knowledge of solids, liquids and gases to decide how mixtures might be separated, including through filtering, sieving and evaporating 	Bradshaw
Year 3:	demonstrate that dissolving, mixing and changes of state are	
How rocks can be changed over time	reversible changes	