

KNOWLEDGE ORGANISER – YEAR 4 STATES OF MATTER

	KEYWORDS and what they mean	
STATES OF MATTER The states of matter are: Solid Liquid Gas	SOLIDS, LIQUIDS & GASES Solids – solid particles are packed tightly together, they cannot move freely Liquids – liquid particles are more loosely packed, they can move to swap places with each other Gases – gas particles are very far apart, they move freely at high speeds	CHANGING STATES OF WATER Solid water (ice) melts at 0°C Liquid water freezes at 0°C Liquid water boils at 100°C
CHANGES OF STATE Materials change state when they are heated or cooled These changes of state are: Melting Boiling / Evaporating Freezing Condensing	CHANGING STATE melting solid → liquid freezing liquid → solid evaporating liquid → gas condensing gas → liquid	EVAPORATION Evaporation is quicker when: it is warm it is windy there is a large surface area