Key vocabulary	
Boiling point	When a liquid reaches the
	temperature at which it turns into
	a gas.
Evaporation	When water changes from a liquid
	to vapour.
Freezing	When a liquid becomes cold enough
	to turn into a solid.
Gas	Fills all the available space as the
	molecules are not bound together.
Liquid	Takes the shape of a container;
	the molecules are loosely
	connected.
Melting	When heat is applied, a solid melts
	into a liquid.
Melting	The temperature at which it melts
point	when you heat it.
Solid	Holds its own shape as the
	molecules are fixed
State	Whether a material is a solid,
change	liquid or gas.
Temperature	A measure of how hot or cold it is.

Year 4: States of matter Key Knowledge Preceding Some solid objectives made from some Observing over time. materials can be changed by squashing, bending, twisting and stretching. (Y2) Matter is the name we give to anything that has mass and occupies a volume. Matter is made up of particles called atoms that are too small to be seen by the human eye. The way the atoms are arranged determines whether a material is a solid, a liquid or a Pattern seeking gas. A solid is made of tightly bound particles. • It is rigid and has a definite. A solid cannot be compressed and will not • change shape unless a force is exerted upon it. A liquid is made of particles that are very Comparative Current close together and have more freedom to tests move around. • A liquid has no fixed shape. Liquids can flow and take the shape of their container. The particles that make up a gas are not • bound together. They are free to move and Fair tests spread out. • A gas has no fixed shape and will expand to fill the entire space available to it. Unlike a solid or liquid, gases can be compressed. • On Earth, water exists in all three states: as solid ice and snow, as liquid water, and as gaseous water vapour in the air.

• The water on Earth is constantly being recycled.

