States of Matter	Gases are often invisible, do not
All materials can be sorted into one of the	have a fixed shape, spread out and
three states of matter: solids, liquids and	take up more space and can be
gasses.	squashed into a smaller space.
Solids stay in one place, kee their shape, always take up the same amount of space and can be cut or shaped.	p Solids, liquids and gasses can be changed from one state to another by heating or cooling
Liquids can flow or be poured, are	Heating a solid (like ice) can cause it
difficult to hold, always take up the	to melt and turn into a liquid (water).
same amount of space and change their	Heating a liquid (like water) can cause
shape depending on the container they	it to evaporate and turn into a gas
are in.	(steam/water vapour).
turn into a liquid (ice). Cooling a gas (steam/water vapour) can cause it to change into a liquid (water) – this is	later on Earth is constantly moving. It is recycled wer and over again – this is called the water ycle. he water cycle follows this process: water vaporates into air, air condenses into water, water alls as precipitation. It is then repeated. vaporation speeds up when the temperature is acreased.

Key Vocabulary

Material: Material is what things are made of. Everything around us, like toys, clathes, and even the air, is made of different materials. States of matter: States of matter are different forms that things can be in. The main states are solid, liquid, and gas. Solid: Solid is when samething keeps its shape and doesn't flow like a liquid. Examples of solids are toys, rocks, and ice cubes. Liquid: Liquid is something that can flow and take the shape of its container. Examples of liquids are water, juice, and milk. Gas: Gas is something that doesn't have a fixed shape or volume. It can spread out and fill up any space. Examples of gases are air, steam, and the air we breathe. Shape: Shape is how something looks. It's the form or outline of an object. Space: Space is the area around us where things exist. It's where we move and where objects can be placed. Flow: Flow is when something moves smoothly in a particular direction, like water flowing in a river or wind blowing through the trees. Pour: Pouring is when you make something flow from ane container to another, like pouring juice from a jug into a glass. Particle: A particle is a tiny piece of something. Everything, including air and water, is made up of particles too small to see. Water: Water is a clear liquid that we need to drink to stay alive. It's also used for washing things and for many other purpases. Ice: Ice is water that has frozen and became solid. It's what you get when you put water in the freezer. Steam / water vapor / air: Steam, water vapor, and air are all forms of gas. Heating: Heating is when you make something warmer, usually by adding heat energy to it. Melting: Melting is when something solid, like ice, turns into a liquid, like water, because it gets warmer. Cooling: Cooling is the opposite of heating. It's when something becomes cooler, usually by losing heat energy. Freezing: Freezing is when a liquid turns into a solid because it gets cold. For example, water freezes into ice when it's really cold outside. Evaporating: Evaporating is when a liquid turns into a gas, like how water on the ground can disappear on a hot day. Condensing: Condensing is when a gas turns into a liquid. When water vapor in the air turns into water droplets on a cold surface. Water cycle: The water cycle is the journey water takes as it moves around the Earth. Precipitation: Precipitation is when water falls from the sky in the form of rain, snow, sleet, or hail. Rain: Rain is water that falls from the sky in droplets. It's what makes plants grow and fills up rivers and lakes. Snow: Snow is frozen water that falls from the sky in soft, white flakes when it's really cold. Sleet: Sleet is a type of frazen rain. It's like tiny balls of ice that fall from the sky when it's cold. Hail: Hail is frozen raindrops that fall from the sky in the form of small, hard pellets during thunderstorms.