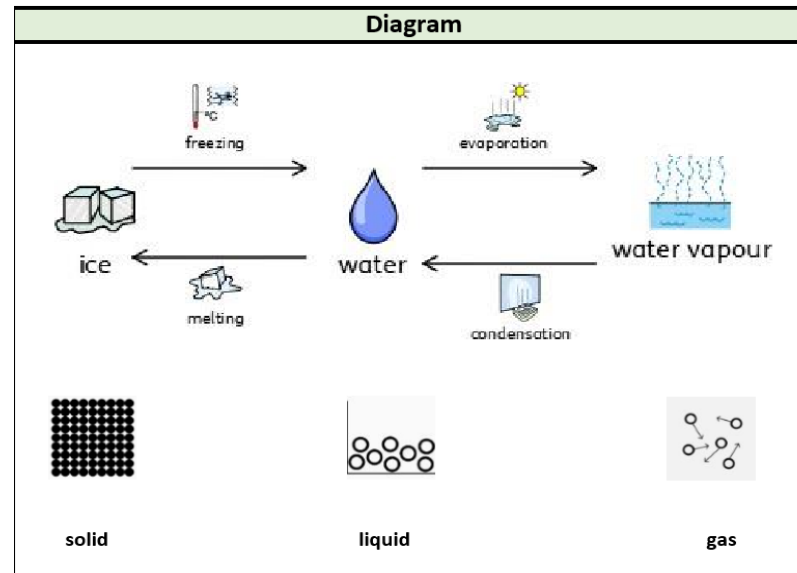
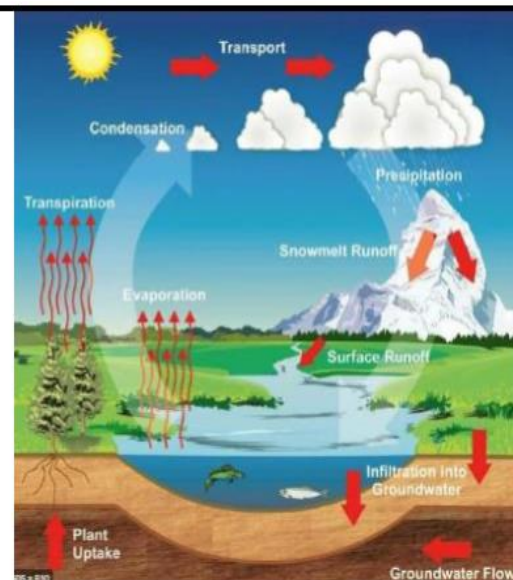


Vocabulary	
condensation	small drops of water which form when water vapour or steam touches a cold surface , such as a window
cooling	lowering the temperature of something
evaporation	to turn from liquid into gas; pass away in the form of vapour .
freezing	If a liquid or a substance containing a liquid freezes , it becomes solid because of low temperatures
freezing point	The freezing point of a particular substance is the temperature at which it freezes . The freezing point of water is 0°C.
gas	a form of matter that is neither liquid nor solid . A gas rapidly spreads out when it is warmed and contracts when it is cooled .
heating	raising the temperature of something
liquid	in a form that flows easily and is neither a solid nor a gas .
melting	to change from a solid to a liquid state through heat or pressure
melting point	The melting point of a particular substance is the temperature at which it melts .
particles	a tiny amount or small piece
precipitation	rain, snow, sleet, dew, etc, formed by condensation of water vapour in the atmosphere
process	a series of actions used to produce something or reach a goal.
properties	the ways in which an object behaves
solid	having a firm shape or form that can be measured in length, width, and height; not like a liquid or a gas
temperature	a measure of how hot or cold something is
vibrations	when something vibrates , it shakes with repeated small, quick movements
water cycle	the process by which water on the earth evaporates , then condenses in the atmosphere, and then returns to earth in the form of precipitation .
water vapour	water in the gaseous state, esp when due to evaporation at a temperature below the boiling point



What is the water cycle?

(see separate knowledge organiser Geography - The Water Cycle)



What will I know by the end of the unit?	
What is a particle ?	<ul style="list-style-type: none"> • Particles are what materials are made from. • They are so small that we cannot see them with our eyes. • The properties of a substance depend on what its particles are like, how they move and how they are arranged • Particles behave differently in solids, liquids and gases.
What is a solid ?	<ul style="list-style-type: none"> • In the solid state, the material holds its shape. • Solids have vibrating particles which are closely packed in and form a regular pattern. • This explains the fixed shape of a solid and why it can't be poured. • Solids always take up the same amount of space.
What is a liquid ?	<ul style="list-style-type: none"> • In the liquid state, the material holds the shape of the container it is in. • This means that liquids can change shape, depending on the container. • Liquids have particles which are close together but random. • Liquid particles can move over each other. • Liquids can be poured.
What is a gas ?	<ul style="list-style-type: none"> • In the gas state, particles can escape from open containers. • Gases have particles which are spread out and move in all directions.
What happens to the particles in water when it is heated or cooled ?	<ul style="list-style-type: none"> • When water (in its liquid form) is heated, the particles start to move faster and faster until they have enough energy to move about more freely. The water has evaporated into a water vapour. • When water is cooled, the particles start to slow down until a solid structure (ice) is formed. The water has frozen. • The temperature at which water turns to ice is called the freezing point. This happens at 0°C.