#### Easton CE Academy Knowledge Organiser for Year 4 Science: States of Matter

Tier 3 Vocabulary		
boiling point	the temperature at which a liquid turns into a gas	
boiling	when a material reaches a temperature when it bubbles and turns into a gas quick- ly	
condensing	the process when a gas turns into a liquid	
gas	a state of a material when it fills the entire space available	
irreversible	when something cannot go back to the way it was before	
liquid	a state of a material when it can flow from one place to another, and can be poured	
matter	another name for 'material'	
material	what an object is made of (not just fabric)	
melting point	the temperature at which a solid melts	
precipitation	another word for rain	
reversible	when something can go back to the way it was before	
solid	a state of a material when it cannot change shape, but holds the shape of whatever container it was frozen in	
systematic	when something is done in a planned way	
temperature	a measurement of how hot or cold some- thing is	
thermometer	a device or instrument used to measure temperature	
water cycle	how water moves around to create clouds, rain and the weather	

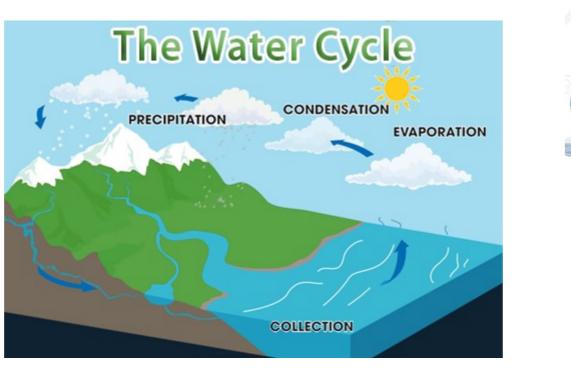
# Working and thinking scientifically

### We are being scientists by:

- sorting objects into solids, liquids and gases.
- making systematic observations and measurements ٠
- asking questions and carrying out a fair test. ٠
- using our data to draw conclusions about chocolate melting. •
- explaining our results, e.g. differences, similarities and changes • related to changes in state, solid to liquid.
- carrying out fair and comparative tests and recording what hap-• pens
- explaining our results about scientific processes •

There are 3 states of matter The temperature that ice mel A solid becomes a liquid whe The temperature that water When a liquid changes to a so When a solid changes to a liq The processes of melting and The process of a liquid turnin The process of a gas turning The processes of condensation

# **Pictures and Diagrams**







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# Key Facts

which are called	solids, liquids and gases
elts at is:	above 0 degrees C
en:	it heats up
freezes at is:	0 degrees C
solid, the process is called:	freezing
quid the process is called:	melting
d freezing are:	reversible
ng into a gas is called:	evaporation
into a liquid is called:	condensation
ion and melting are:	reversible