

Key Vocabulary

Word	Definition	●/●
Boiling Point	The temperature at which a liquid becomes a gas.	
Change of State	When a material changes from one state to another, for example: liquid -> gas // gas -> liquid // solid -> liquid // liquid -> solid	
Condensation	The process of a gas cooling and changing into a liquid.	
Cooling	Lowering the temperature of something.	
Energy	The ability 'to do work'.	
Evaporation	The process of a liquid heating and changing into a gas.	
Freezing	The process of a liquid cooling and changing into a solid.	
Freezing Point	The temperature at which a liquid becomes a solid.	
Gasses	No fixed shape and expand to fill a container- particles move far apart.	
Heating	Raising the temperature of something.	
Liquids	Flow easily but have constant volume and close particles that move around.	
Melting	The process of a solid heating and changing into a liquid.	
Melting Point	The temperature at which a solid becomes a liquid.	
Mixture	Something that is joined or mixed together but can be separated again	
Particle	A tiny amount of something. You can't see them with your eyes!	
Precipitation	When water vapour condenses in the atmosphere, e.g. rain, snow, hail	
Solids	Firm or stable in shape with particles that are very close together.	
States of Matter	The 3 main forms which matter can exist in: 1) solid, 2) liquid or 3) gas.	
Temperature	How hot or cold something is. Measured in degrees Celsius (°C).	
The Water Cycle	The never-ending process of water moving around the Earth: 1) the Sun evaporates water into water vapour; 2) the water vapour cools down and condenses into liquid water in the atmosphere; 3) the liquid water becomes denser and falls from in the form of rain, snow, sleet or hail (precipitation); 4) water collects and the cycle starts again.	

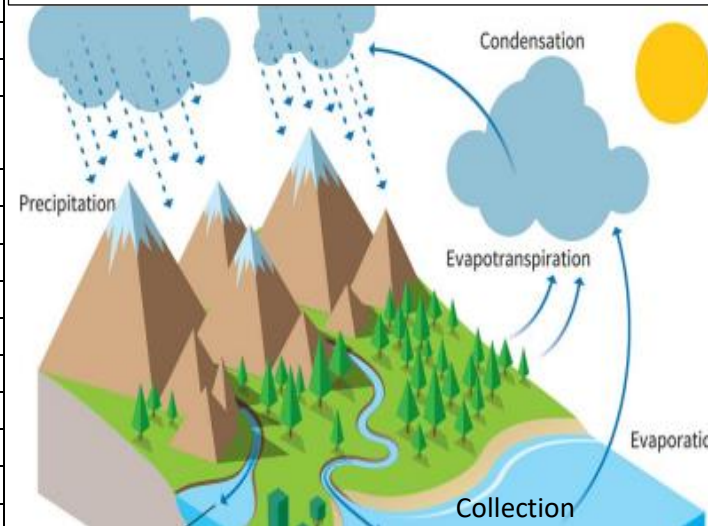
Previous Knowledge

In Year 1, you learnt to:

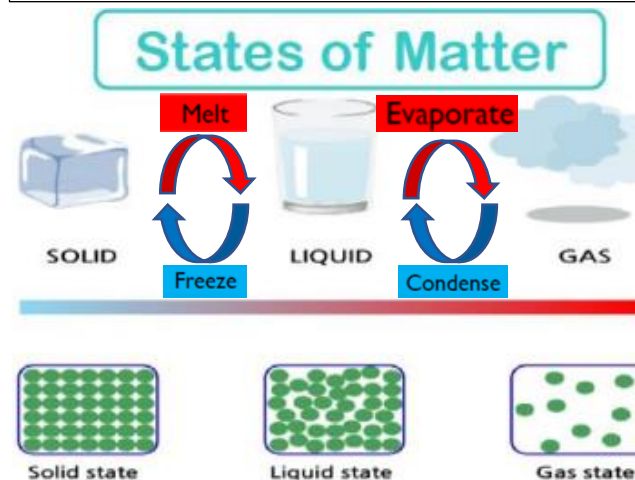
- Distinguish an object from its material.
- Identify various everyday materials and describe their physical properties.

In Year 2, you learnt to:

- Compare the suitability of everyday materials for particular uses.
- Find out how the shapes of some solid objects can be changed.



Water **evaporates** at **100°C** and **freezes** at **0°C**



Key Questions

- What are solids, liquids and gasses?
- Do these 'States of Matter' behave differently or the same to each other?
- Can we see gasses?
- How can we prove they exist?
- What temperature does water freeze?
- What temperature does water boil?
- What temperature does water change into a gas?
- What is process of condensation?
- What happens to condensation when its temperature increases?
- How does the Water Cycle work and why does it matter to us?
- When have you seen the Water Cycle in action?

Working Scientifically

- Asking relevant questions and using different types of scientific enquiries to answer them.
- Making systematic and careful observations.
- Gathering, recording, classifying and presenting data in various ways to answer questions.
- Recording findings and predictions.
- Using results to draw simple conclusions, make new predictions and raise further questions.
- Setting up simple practical enquiries, comparative and fair tests.