

Living things and their habitats	Animals including humans	States of matter	Sound	Electricity
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Year 4 – States of matter

Knowledge

- To know if an object is a solid, liquid or gases.
- To know the difference between solids, liquids and gases.
- To know that some materials change state when heated.
- To know the part played by evaporation and condensation in the water cycle.

Skills

- **identifying differences, similarities or changes related to simple scientific ideas and processes**
 This could be achieved by observing different materials to discover whether it is a solid, liquid or gas and how they change state. (Observations)
- **making systematic and careful observations and, where appropriate, taking accurate measurements using standard units, using a range of equipment, including thermometers and data loggers**
 Use observations to identify the differences in the properties of solids, liquids and gases. Investigate at which temperature the material changes state e.g. ice cubes/ chocolate/ cheese. They might observe and record evaporation over a period of time, for example, a puddle in the playground or a washing line, and investigate the effect of temperature on washing or drying or a snowman melting. (Comparative testing and Observing over time)
- **recording findings using simple scientific language, drawings, labelled diagrams, keys, bar charts, and tables**
 Use drawings and labelled diagrams to explain the part played by evaporation and condensation in the water cycle. (Research)

<u>Vocabulary</u>	
Temperature	Mass
Celsius	Vapour
Compressibility	Solid
Soluble	Liquid
Dissolve	Gas
Humidity	Matter
Condensation	Mixture
Evaporation	Climate
Precipitation	pressure
Weight	

Preload

- Properties and changes of materials (Y5) - When discussing the water cycle, explain that the changes of state that occur can be classed as reversible changes.