

## Key Knowledge

What should I already know?

- Know what a solid, liquid and gas is.
- Distinguish between solids, liquids and gases.
- Identify and describe some properties of solids, liquids and gases.
- Recognise that solids, liquids and gases can change state
- Knowledge of how temperature affects the state of matter

New Skills and knowledge:

- To compare and group materials together, according to whether they are solids, liquids or gases.
- To observe that some materials change state when they are heated or cooled, and measure or research the temperature at which this happens in degrees Celsius.
- To identify the part played by evaporation and condensation in the water cycle and associate the rate of evaporation with temperature.

## Vocabulary - Tier 2 vocabulary

bond - joined securely to something else

condensation - turn a gas into a liquid.

evaporation - turn a liquid into a gas.

precipitation - liquid or solid particles that fall from a cloud as rain, sleet, hail or snow.

boiling point - the temperature at which a liquid boils and turns to vapour

melting point - the temperature at which a given solid will melt

states of matter - materials can be one of three states: solids, liquids or gases. Some materials can change from one state to another and back again.

liquid - a substance that flows freely but is of constant volume gas a substance which will expand freely to fill a whole container and has no fixed shape or volume

thermometer - an instrument for measuring and indicating temperature water cycle the cycle of processes by which water circulates between the earth's oceans, atmosphere, and land

Possible Scientific Enquiry Questions

Observing over time - How does the level of water in a glass change when left on a windowsill?

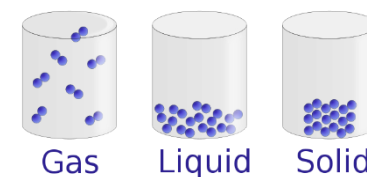
Pattern seeking - Is there a pattern in how long it takes different sized ice lollies to melt?

Identifying, classifying and grouping - Can you group these materials into solids, liquids and gases?

Fair testing - How does the mass of a block of ice affect how long it takes to melt?

## Diagrams - Key Knowledge

What are the three states of matter?



## Changes of State

