Y4: States of Matter

Key Vocabulary

or gases. Some materials can change from one state to another and back again.

These are materials that keep their shape unless a

Materials can be one of three states: solids, liquids

force is applied to them. They can be hard, soft or

even squashy. Solids take up the same amount of

space no matter what has happened to them.

Liquids take the shape of their container. They can change shape but do not change the amount of space they take up. They can flow or be poured.

gases container or room they are in. They do not have any fixed shape but they do have a mass.

water This is water that takes the form of a gas. When water is boiled, it evaporates into a water vapour.

Liquid turns to a solid during the freezing process.

Gases can spread out to completely fill the

melt This is when a solid changes to a liquid.

condense Turn a gas into a liquid by cooling it down

evaporate Turn a liquid into a gas by heating it up.

Identify and compare the suitability of a variety of everyday materials, including wood, metal, plastic, glass, brick, rock, paper and cardboard for particular uses. Some solid materials can be changed by squashing, bending, twisting and

How to describe simple physical properties of a variety of everyday materials.

Identify and name a variety of everyday materials, including wood,

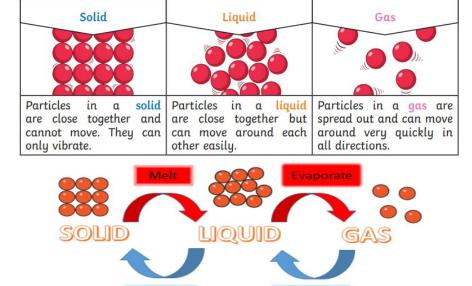
stretching.

Key Knowledge

- Water freezes at 0 degrees Celsius.
 There are 3 states of matter:
- Inere are 3 states of matter

What should I already know?

plastic, glass, metal, water, and rock.



The Water Cycle

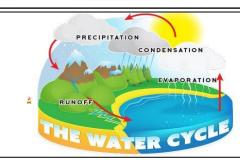
freeze

states of

matter

solids

- Water from lakes, puddles, rivers and seas is evaporated by the sun's heat, turning it into water vapour.
 This water vapour rises, then cools down to form water droplets in clouds (condensation).
- 3. When the droplets get too heavy, they fall back to the earth as rain, sleet, hail or snow (precipitation).



Condense