How are solids, liquids, and gases different?

What are solids, liquids and gases?

Solid - A state of matter that keeps its own shape, can be held, doesn't flow like a liquid and takes up a fixed amount of space.

Liquid - A state of matter that flows easily, takes the shape of its container but always keeps the same volume.

Gas - A state of matter with no fixed shape or size, that spreads out to fill any container, with particles that are far apart and move freely.

Do all liquids behave the same?

Liquids can behave differently based on their viscosity.

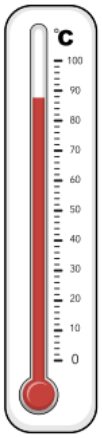
Low Viscosity: Liquids like water, juice, or milk flow very quickly.

High Viscosity: Liquids like syrup, ketchup, or shampoo flow slowly because their particles rub together more.

What is a thermometer used for?

A thermometer is used to measure temperature. Here is how to use a thermometer:

1. Place the thermometer in the liquid.
2. Wait for the coloured centre to stop moving.
3. Read the scale precisely to find the temperature.

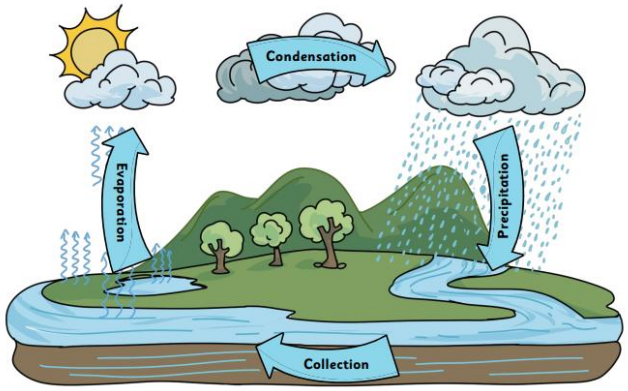


How do materials change state?

Materials can change from one state of matter to another when heated or cooled.

A solid when heated becomes a liquid. A liquid when heated becomes a gas. A gas when cooled becomes a liquid. A liquid when cooled become a solid.

What is the water cycle?



Do all liquids evaporate?

All liquids evaporate but they evaporate at different rates. Liquid type, heat, wind and surface area can all effect the rate of evaporation.