

In science we are learning about...

States of matter



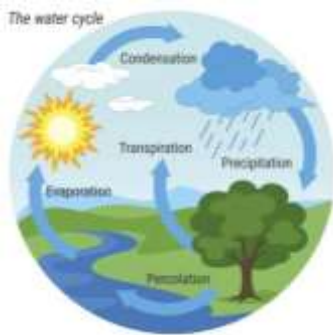
Key vocabulary

- **Solid**- firm or hard, these are materials that keep their shape unless a force is applied to them.
- **Liquid**- 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.
- **Gas** - a substance, having no fixed shape that can flow and be squashed.
- **Condense** - turn a gas into a liquid
- **Evaporate** - turn a liquid into a gas.
- **Precipitation** - Liquid or solid particles that fall from a cloud as rain, sleet, hail or snow.
- **Water vapour** -this is water that takes the form of a gas.
- **Water cycle** - the continuous movement of water within the Earth and atmosphere.
- **Melt**- this is when a solid changes into a liquid.
- **Freeze**- liquid turns to a solid during the freezing process.



Sticky knowledge

- A solid can hold its shape.
- A liquid can flow and can be poured.
- A gas can flow and be squashed.
- Evaporation is when a liquid is heated and it turns into a gas.
- Condensation is when a gas is cooled and it turns into a liquid.
- When water and other liquids reach a certain temperature, they change state into a solid or a gas.



There are three states of matter.

Solid	Liquid	Gas
Particles in a solid are close together and cannot move. They can only vibrate.	Particles in a liquid are close together but can move around each other easily.	Particles in a gas are spread out and can move around very quickly in all directions.

Links to previous learning

- To be able to describe the simple physical properties of a variety of everyday materials.
- To compare a variety of everyday materials on the basis of their simple physical properties.
- To know the shapes of solid objects made from some materials can be changed by squashing, bending, twisting and stretching.
- Observe the changes across the 4 seasons.

Aspirations

- Environmental scientist
- Meteorologist
- Doctor/Dentist
- Gas engineer



Characteristics needed for this

topic:

- Making links
- Curiosity
- Questioning

