

Science - States of Matter

Lower Juniors

Autumn 1 and 2



FIT Curriculum Links

WORLD WORKOUT - to understand states and changes of state within our lives and the world.

Expert Vocabulary

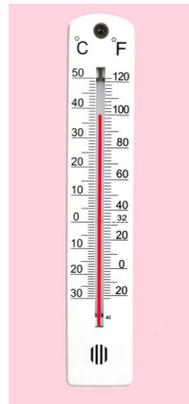
States of matter	Materials can be 1 of 3 states : solids, liquids or gases.
Changes of state	Some materials can change from one state to another.
Solids 	Keep their shape unless a force is applied to them. Hard, soft, or even squashy. Take up the same amount of space no matter what happens to them.
Liquids 	Take the shape of their container. Can change shape but not change the amount of space they take up.
Gases 	Spread out to completely fill the container or room they are in. Do not have any fixed shape but do have a

Very Important Pieces/People



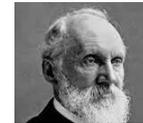
Anders Celsius
(1701 - 1744)

Astronomer who created the Celsius temperature scale.



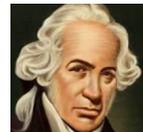
Lord Kelvin
(1824-1907)

Mathematical physicist who determined the temperature of absolute zero.



Daniel Fahrenheit
(1686 - 1736)

Invented the Fahrenheit scale and a thermometer that used mercury. This was an improvement on previous thermometers that used alcohol as it could measure higher temperatures.



Key Information

Solids.



Particles are close together and cannot move. They only vibrate.

Liquids.



Particles are close together but can move around each other easily.

Gases



Particles can spread out and can move around easily.

When water and other liquids reach certain temperatures, they change into a solid or a gas. The temperature that these changes happen at are called the boiling, melting and freezing points.

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melt	When a solid changes to a liquid.
freeze	Liquid turns into a solid during the freezing process.
evaporate	When a liquid turns into a gas.
condense	When a gas is turned into a liquid.
water cycle	The movement of water above and below the Earth.
precipitation	Liquid or solid particles that fall from a cloud as rain, sleet, snow or hail.

Glass Blower

A glass blower shapes glass into various designs using heat.

Very Important Pieces/People

Global Warming Researchers

Researchers study past climates to understand what might happen in the future. Their work involves monitoring ice caps, sea levels and temperatures as well as studying how global climate affects regional weather patterns. They also attend conferences and publish their findings.



Key Information

Evaporation.



When water is heated or warmed it turns into water vapour.

Condensation



When water vapour is cooled down and turns into water.

