Changing States of Water

https://www.youtube.com/watch?v=c3X7pIFYky4

https://www.youtube.com/watch?v=BitWextjtzM

Matter and Particles

Everything in the universe is made of the same stuff, and this stuff is called matter.











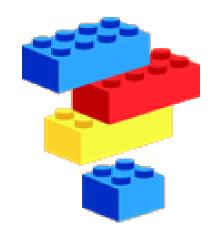
Yep everything! It doesn't matter what it is, it is made of matter! Even you and me.

Matter and Particles

All matter is made up of tiny particles.

These particles are too small for us to see, unless we use a very strong microscope.

These particles are like Lego blocks - there are only a limited number of them, but they can be combined in an infinite number of ways to make different structures and objects.



Solids







Materials in a solid state keep their shape unless a force is applied to them.

Solids can be cut, squashed or twisted. They will not change shape on their own.

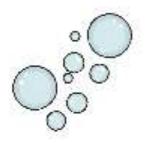
Solid materials always take up the same amount of space.

They do not spread out or flow.

Solids do not have to be hard. They can be squashy or soft.

Liquids







Materials in a liquid state take the shape of the container they are in.

Although liquids can change shape, they do not change their volume. This means they still take up the same amount of space.

Liquids are pulled down to the bottom of a container by gravity.

Liquids can flow or be poured.









Materials in a gaseous state can spread out to completely fill the container or room they are in.

Gases have weight.

Gases can be squashed.

Gases do not keep their shape.