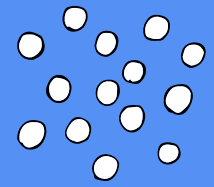
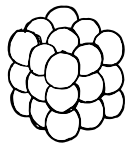


SOLIDS, LIQUIDS AND GASES



All materials are either a **solid**, a **liquid**, or a **gas** - these are the three **states of matter**. All materials are made up of **particles** and particles behave in different ways depending on the material's state.

SOLIDS



DON'T FLOW

The particles are tightly packed and cannot move past each other.

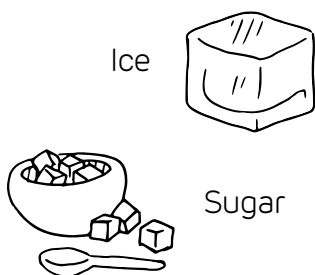
The particles vibrate.

DON'T COMPRESS EASILY

There is very little space between the particles for movement.

KEEP THEIR OWN SHAPE

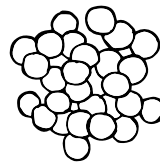
The particles are tightly locked in place.



Ice

Sugar

LIQUIDS



CAN FLOW AND BE Poured EASILY

Particles can move easily past each other.

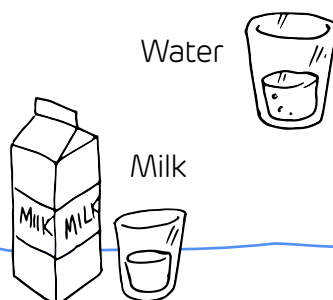
The particles have some movement energy.

DON'T COMPRESS EASILY

There is little space between the particles.

TAKE THE SHAPE OF CONTAINERS

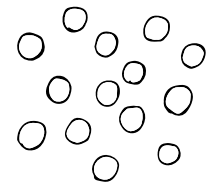
Particles can move past each other and are easily poured.



Water

Milk

GASES



CAN FLOW EASILY

Particles can move very easily past each other.

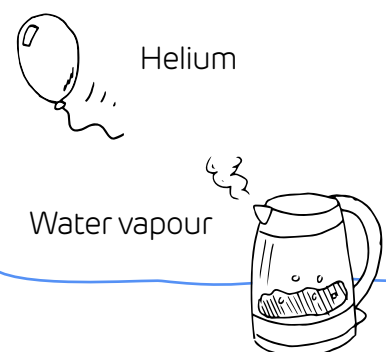
The particles have lots of energy and move fast.

CAN BE COMPRESSED EASILY

There's lots of space between the particles.

TAKE THE SHAPE OF CONTAINERS

The particles can move easily past each other.



Helium

Water vapour

DID YOU KNOW?

At Drax Power Station, we have examples of all three states of matter.



Water vapour (liquid, gas)



Water

COOLING TOWERS

TURBINES



Steam (gas)

CONDENSERS



Steam (gas) and water (liquid)

BIOMASS

The fuel we use



Solids

MACHINERY



FASCINATING FACT



Most metals are solid at room temperature. Mercury, the silvery liquid used in thermometers, is an exception.

Some solids, such as sand and sugar, can appear to behave like a liquid as they can be poured. This is because of the tiny size of the particles that make up the solid.

