

Properties of Matter Knowledge Organiser

Tier Three Vocabulary

Solubility: a measurement of how much of a substance will dissolve in a given volume of a liquid.

Conductivity: a measure of how materials allow electric currents flow more freely than others.

Evaporation: the process of turning from liquid into vapour.

Filtering: pass (a liquid, gas, light, or sound) through a device to remove unwanted material.

Transparency: the condition of being transparent- see through.

Permeability: the condition of allowing liquids or gases to pass through it.

Solution: a specific type of mixture where one substance is dissolved into another.

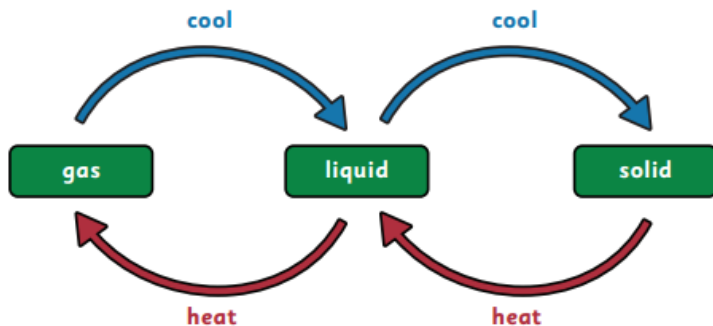
evaporation – used for separating a soluble solid and a liquid

sieving – used for separating two solids

magnets – used for separating magnetic and non-magnetic materials

filtration – used for separating a liquid and a solid

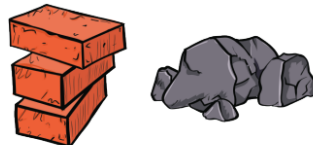
States of matter can change when they are heated or cooled.



Solid



- stay in one place
- keep their shape
- do not flow
- always take up the same amount of space
- do not spread out
- can be cut or shaped



Liquid



- can flow or be poured
- not easy to hold
- change their shape to fit the container they are in
- take up the same amount of space
- volume stays the same



Gas



- often invisible
- do not keep shape
- do not take up the same amount of space
- can change shape and volume
- can be squashed

