Y4: 'Potions' project knowledge organiser

What are Potions?

Potions are liquids said to have healing or magical properties. Healing potions were often made using herbs before discoveries of modern medicine. Potions are commonly used in fantasy stories and films.



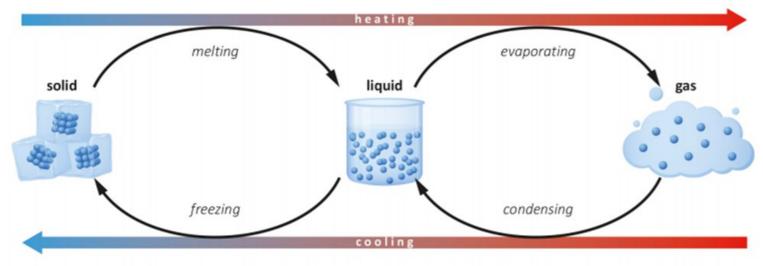
Solids, liquids, and gases

All matter is made up of particles. The arrangement of the particles determines whether the matter is a solid, liquid or gas and its properties.

| Particle arrangement | Properties | Examples |
|----------------------|--|---|
| Solid | Particles are tightly packed means solids hold their sh squashed. | • |
| Liquid | Particles are slightly furthe can flow from one contain Liquids cannot change the | her to another. blood |
| Gas | Particles are far apart so g out to fill all the space ava squashed to change its vo | ilable. A gas can be nitrogen, water vapour |

Changes of state

Matter can be changed between states by heating or cooling.



Matter: A physical substance that takes up space. Solid: A state of matter that has a fixed shape and volume. Liquid: A state of matter with a definite volume, but no fixed shape. State of gas: A state of matter that fits to the shape of a container in which it is held. **Degrees Celsius:** A scale used to measure temperature. **Temperature:** The amount of heat present in a substance or object. **Boiling Point:** The temperature at which a liquid boils and turns to vapour. Freezing Point: The temperature at which a liquid becomes a solid. Melting Point: The temperature at which a solid becomes a liquid. Solidify: A change of matter that results in creating a solid. **Thermometer:** A tool for measuring and indicating temperature. Vapour: A gas (or small drops of liquid) that result from heating or boiling a liquid. **Condense:** The process of a gas cooling to become a liquid. **Evaporate:** The process of a liquid becoming a gas by heating.

Big question: Do all liquids have the same properties?

Key Vocabulary:

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