Knowledge Organiser - Materials

Wood, plastic, glass and metal

- **material** – what an object is made from



- **soft** – a material that feels gentle to touch



- **hard** – a material that does not easily change shape



- **shiny** – a smooth surface that can reflect light

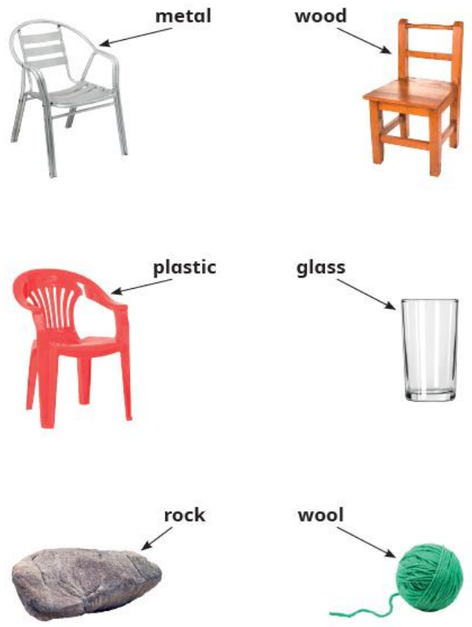


- **dull** – not clear, bright or shiny



Objects and materials

- **object** – something that can be seen and touched
- **material** – what an object is made from



Rock

- **rock**



- **heavy** – difficult to lift
- **light** – easy to lift



- **rough** – an uneven surface



- **smooth** – an even surface



Melt and freeze

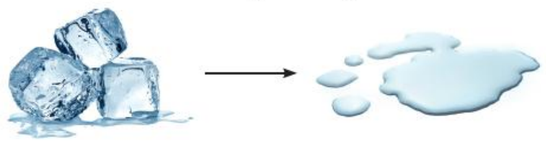
- **solid**



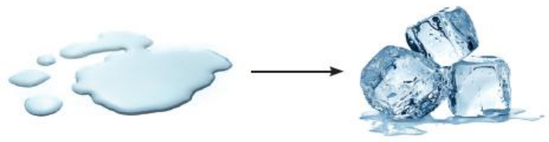
- **liquid**



- **melt** – when a solid changes to a liquid



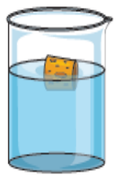
- **freeze** – when a liquid changes to a solid



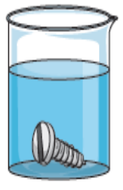
- **ice** – water as a solid/frozen water

Float or sink

- **float** – when an object stays on top of the water



- **sink** – when an object falls to the bottom of the water



Investigate materials

- **transparent** – materials you can see through
- **opaque** – materials you cannot see through
- **absorb** – when liquid is taken in by a material

Experiment variables

- **independent variable** (what will change) – the type of material used



- **dependent variable** (what will be measured) – children will observe whether the material absorbs the water or not



- **controlled variables** (what is kept the same) – the size of the material, the amount of water used and the time before checking to see if the water has been absorbed

