

YEAR 5 KNOWLEDGE ORGANISER – MYSTERIOUS MATERIALS

WHAT IS IT MADE OF?

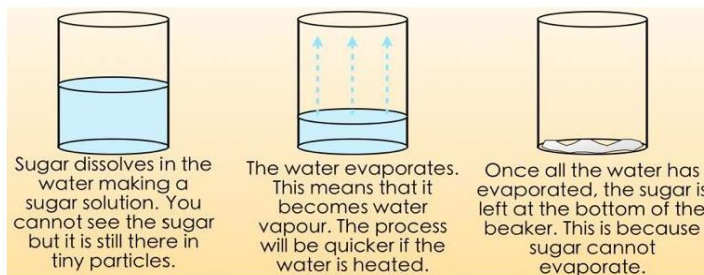
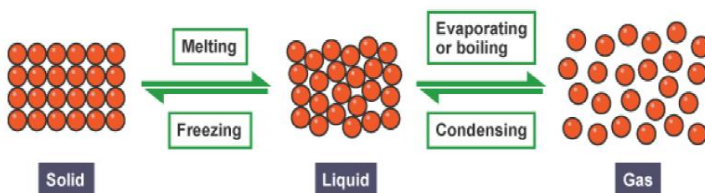
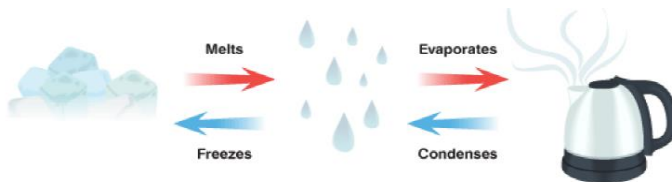
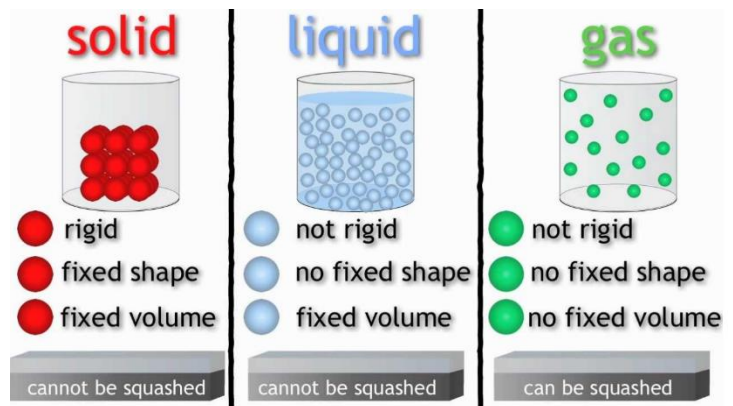
This is a science based topic where the children become members of a Material Academy and are tasked with solving real life problems.

Key Knowledge

- Able to use appropriate scientific language to describe material properties
- Make sensible predictions before carrying out experiments
- Devise and perform own experiments that are fair tests
- Evaluate results of experiments using appropriate scientific language, making recommendations on how to solve the problems posed

Key Vocabulary

- Transparent, opaque, translucent
- Rough, smooth textures
- Flexible, malleable
- Hard and soft
- Solid, liquid, gas
- Buoyancy
- Malleable, compressed
- Reversible, non-reversible
- Soluble, insoluble, dissolving
- Evaporation, condensation
- Solidification
- Thermal insulation
- Reflective- shiny or dull



Conductor - A material or device which allows heat or electricity to carry through

Dissolve - When something solid mixes with a liquid and becomes part of the liquid

Evaporation - The process of turning from liquid to vapour

Flexible - Capable of bending easily without breaking

Gas - An air-like fluid substance which expands freely to fill any space available

Insulator - A substance which does not readily allow the passage of heat or sound

Irreversible - Cannot be reversed back to its original state

Liquid - A substance that flows freely but can be measured by volume e.g. water or oil

Magnetic - Capable of being magnetised or attracted by a magnet

Material - The matter from which a thing is or can be made from

Opaque - Not able to be seen through, not transparent

Reversible - Able to be reversed back to its original state

Solid - Firm and stable in shape, not a liquid or fluid

Soluble - Able to be dissolved, especially in water

Thermal - Relating to heat

Transparent - Allows light to pass through so that objects behind can be seen