

Key Vocabulary

- **Conductor** - is an object that allows the flow of electric current.
- **Insulator** - a substance which does not allow the passage of heat or sound.
- **Dissolve** - to become combined into a liquid to form a solution.
- **Solution** - a mixture of two or more substances that stays mixed.
- **Soluble** - a substance that can dissolve in water.
- **Evaporate** - when a liquid changes into a gas.
- **Filter** - a device for removing solid particles from a liquid or a gas.
- **Transparency** - the quality of allowing light to pass through.
- **Solubility** - the ability to be dissolved, especially in water.

Previous Learning

In EYFS, children learn:

- that different objects do different things (sink/float, block or let light through or are attracted to magnets).

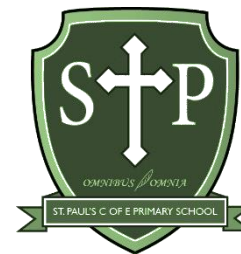
In KS1, children learn:

- that different objects are made of different materials for different reasons.
- the best material for a specific job, explaining the reason for our decision.

In KS2, children learn:

- that some materials are magnetic.
- that some materials conduct electricity and that there are three states of matter (solid, liquid and gas).

Year 5 Science Knowledge Organiser – Materials and Their Properties



Golden Knowledge Nuggets



- Some materials can be group based on their properties including their hardness, solubility, transparency, conductivity and response to magnets.
- Some materials can dissolve in a liquid to form a solution.
- That some mixtures can be separated through filtering, sieving and evaporating.
- That dissolving, mixing and changes of state are reversible changes.
- Some changes result in the formation of new materials, and that this kind of change is not usually reversible.
- That some materials such as wood, metal and plastic have particular everyday uses due to their properties.