

**Ropsley C of E Primary School**  
**Science Knowledge Organiser – Year 5-6**  
**Properties and Changes of Materials**

**Vocabulary**

Hardness  
Solubility  
Transparency  
Conductivity – electrical and thermal  
Magnetic  
Solids  
Liquids  
Gases  
Reversible changes  
Filtering  
Sieving  
Evaporating

**Knowledge**

Knows how to compare and group together everyday materials on the basis of their properties, including their hardness, solubility, transparency, conductivity (electrical and thermal), and response to magnets.

Knows that some liquids will dissolve in liquid to form a solution, and describe how to recover a substance from a solution.

Knows how to use knowledge of solids, liquids and gases to decide how mixtures might be separated, including through filtering, sieving and evaporating.

Knows how to give reasons, based on evidence from comparative and fair tests, for the particular uses of everyday materials, including metals, wood and plastic.

Knows how to demonstrate that dissolving, mixing and changes of state are reversible changes.

Knows that some changes result in the formation of new materials, and that this kind of change is not usually reversible, including changes associated with burning and the action acid on bicarbonate of soda.

