## Properties of Materials Knowledge Organiser

## Key Vocabulary

| conductor                                   | A material that heat or electricity can easily travel through. Many metals are good conductors.                        | reversible changes             | A change in state that can be 'undone' or<br>performed backwards to allow the substance to go<br>back to its previous state. |  |
|---|--|--------------------------------|--|--|
| evaporation                                 | When a liquid turns into a gas.  | sieve                          | A device used to strain solids from a liquid or removing larger particles from finer particles.                              |  |
| filter                                      | Something that removes the impurities from a substance such as water.  | soluble                        | A substance that can be dissolved in a liquid such as water.   |  |
| irreversible changes                        | A change in state that cannot be 'undone' or performed backwards. The substance cannot go back to its previous state.  | substance                      | The matter that something is made up of.   |  |
| materials                                   | The substance that something is made of.   | thermal                        | Related to temperature.  |  |
|   | Кеу  | Facts                          |  |  |
| Different materials a conductivity, transpa | re used for different jobs based on their properties: electric<br>arency etc.  | cal conductivity, flexibility, | hardness, insulators, magnetism, solubility, thermal   |  |
|   | hen particles are mixed with a liquid. Materials that will dis<br>o not dissolve. Sugar is soluble, sand is insoluble. | ssolve are soluble. Materia    | Is that will not dissolve are insoluble. A suspension is   |  |
| When some materia                           | Is are mixed, the change can be reversed by sieving, filterin  | g and evaporating.             |  |  |
| Irreversible changes                        | result in a new product being made and cannot be reverse   | d.e.g. burning wood produ      | ices ash. The ash cannot become wood again.  |  |



| Tier 2 Vocabulary |  |
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structure

The way in which something is built or organised.