

# Year 5 – Science – Properties and Changes of Materials - Knowledge Organiser

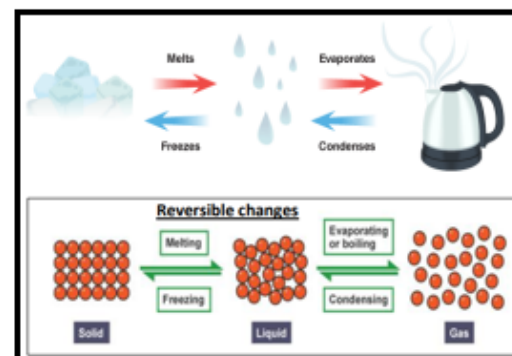
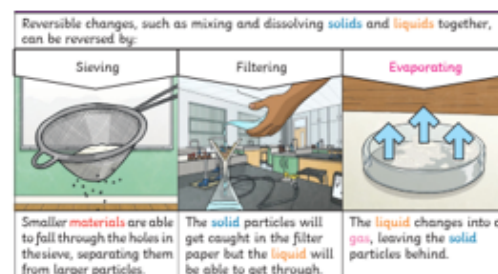
| Key vocabulary and definitions |                                                                              |
|--------------------------------|------------------------------------------------------------------------------|
| <b>conductor</b>               | a substance that allows heat or electricity to go through it                 |
| <b>dissolve</b>                | to be absorbed by a liquid, especially when mixed                            |
| <b>evaporate</b>               | to cause a liquid to change to a gas, especially by heating                  |
| <b>filter</b>                  | bending easily without breaking                                              |
| <b>flexible</b>                | able to change or be changed easily according to the situation               |
| <b>insoluble</b>               | impossible to dissolve                                                       |
| <b>insulator</b>               | a material or covering that electricity, heat, or sound cannot go through    |
| <b>irreversible</b>            | not possible to change                                                       |
| <b>magnetic</b>                | able to attract objects or materials containing iron or steel                |
| <b>material</b>                | a physical substance that things can be made from                            |
| <b>mixing</b>                  | to combine, so that the result cannot easily be separated into its parts     |
| <b>mixture</b>                 | a substance made from a combination of different things                      |
| <b>property</b>                | a quality in a substance or material                                         |
| <b>reversible</b>              | it can be changed back to what it was before                                 |
| <b>separate</b>                | to divide into parts                                                         |
| <b>soluble</b>                 | able to be dissolved to form a solution                                      |
| <b>solution</b>                | a liquid into which a solid has been mixed and has dissolved                 |
| <b>transparent</b>             | if a substance or object is transparent, you can see through it very clearly |



**Dissolving**  
A solution is made when **solid** particles are mixed with **liquid** particles. **Materials** that will dissolve are known as **soluble**. **Materials** that won't dissolve are known as **insoluble**. A suspension is when the particles don't dissolve.

Sugar is a **soluble material**.

Sand is an **insoluble material**.



## Reversible or Irreversible Changes?

