#### **SMRP Knowledge Organiser for Year 5: Materials**



### Science knowledge

#### **Materials**

Different materials are used for particular jobs based on their physical properties: electrical conductivity, hardness, transparency, flexibility, magnetism, solubility, thermal conductivity, insulators.

#### **Dissolving**

A solution is made when solid particles are mixed with liquid particles. Materials that dissolve are known as soluble. Materials that won't dissolve are known as insoluble.



Sugar is a soluble material because the solid dissolves in the liquid.

Sand is an **insoluble** material because it does not dissolve in the liquid.



Reversible changes such as mixing or dissolving solids and liquids together can be reversed by:

#### Sieving

Smaller materials are able to get through the holes in the sieve, separating them from larger particles.

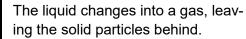


# Filtering Filtering



The solid particles will get caught in the filter but the liquid will be able to get through.

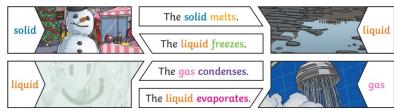
#### **Evaporating**





## **Changes of State**





## **Science Vocabulary**

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