

Chacewater School – LEAP Into Learning – Spring 1– Red Oaks SCIENCE: Properties and changes of materials



What we might already know:

To identify and compare the suitability of a variety of everyday materials (Y1&2)

The difference between solid, liquids and gases (Y4)

What is a solution?

Key Knowledge:

Different materials are suitable for different jobs because of their qualities and properties.

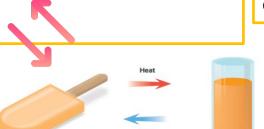
How could you describe different

materials?

Reversible changes are when you can get the original materials back.

back to ice again.

For example: when ice melts to form water. It could be frozen



Irreversible changes are when you cannot get the original materials back again.

Heating and chemical reactions can both cause irreversible changes.

For example: when a piece of wood is burned to form ash. It cannot be made wood again.

> Can all changes be reversed?

A **solution** is made when a material **dissolve**s in a liquid.

Sugar and water are soluble materials.

An **insoluble** material does not dissolve in liquid, such as sand.

Can you identify the best methods to separate mixtures?









evaporation – used for separating a soluble solid and a liquid

sieving – used for separating two solids

magnets – used for separating magnetic and non-magnetic materials

filtration – used for separating a liquid and a solid

 magnetic translucent

• hard

• soft

• durable

flexible

transparent

absorbent

waterproof

• opaque