








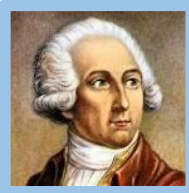
# Properties and Changes of Materials (Y5)

## Vocabulary

chemistry	dissolve	insoluble	irreversible	reversible	soluble	thermal
						
Part of <b>science</b> that <b>examines substances</b> .	<b>Mixes completely</b> to make a <b>transparent liquid</b> .	<b>Can't dissolve</b> in a liquid.	<b>Chemical change</b> that <b>can't be changed back</b> .	<b>Physical change</b> that <b>can be changed back</b> .	<b>Can dissolve</b> in a liquid.	<b>Heat</b>

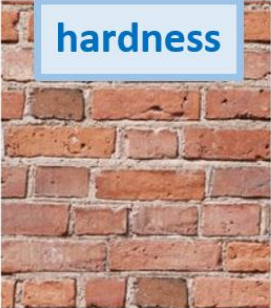

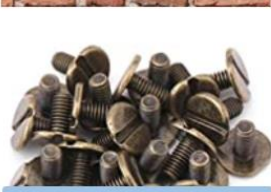

## Important People

Antoine Lavoisier  
(1743 – 1794)



- **Chemist**
- Discovered the role **oxygen** plays in **burning**.

## Big Ws:

 <b>hardness</b>	 <b>magnetism</b>
 <b>electrical conductivity</b>	 <b>transparency</b>

thermal conductors	thermal insulators
 <b>copper</b>	 <b>wood</b>
 <b>aluminium</b>	 <b>wool</b>

### Big Ws: Mixtures

- A **mixture** is a combination of **at least two substances**, with **different properties**.
- Mixtures **don't chemically combine**.
- They can be **separated**.



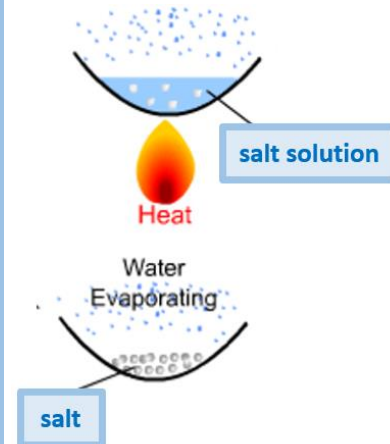
- A **solution** is made when one thing **dissolves** in another.
- It is always **transparent**.



### Big Ws: Separating

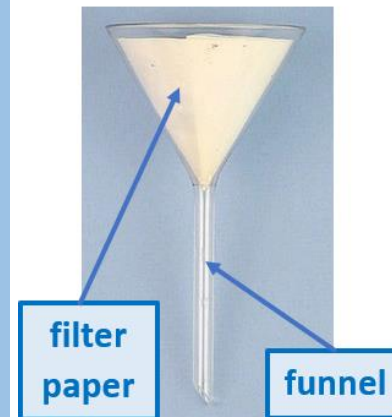
#### Evaporation

- Used for a **solution**.



#### Filtration

- Removes **liquid** from a mixture.
- Leaves the **solid** in the **filter paper**.



#### Sieving

- Used for a mixture of **solids**.
- Different **sized holes** are used for separating different sized solids.



### Big Ws: Acids

- Most acids are **very dangerous**.
- Some **safe acids** are found in **fruits** and in the **body**.

