



Welcome to Hogwarts!

On arrival, you will be sorted into your houses.

Over the next two weeks, your Potions lessons will focus on the following key **scientific** knowledge.

Cows - Change one thing (**independent variable**)

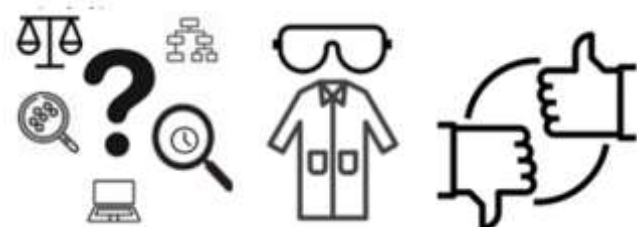
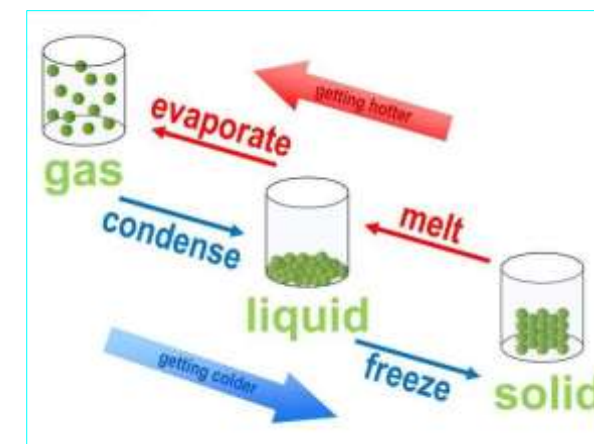
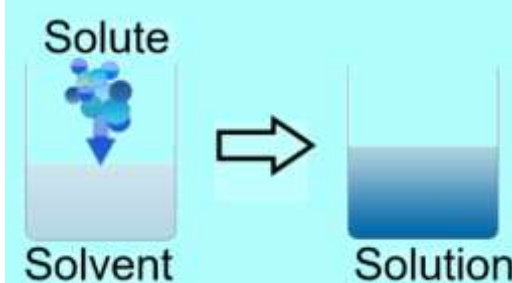
Moo - Measure something (**dependent variable**)

Softly - Keep everything else the same (**controlled variable**)



Chemistry

Dissolve



Plan Do Review

??? asking questions

making predictions

setting up tests

interpreting and communicating results

evaluating

observing and measuring

recording data

Process 1: Evaporation

Boil the mixture, or leave it for a few days, so the liquid evaporates leaving the solid behind.

Process 2: Magnetic Attraction

Use a magnet to attract any magnetic materials and remove them from the mixture.

Process 3: Filtration

Line a funnel with filter paper and place it over a beaker. Pour the mixture slowly into the filter paper. The liquid will get through and any insoluble solids will be caught in the filter paper.

Process 4: Sieving

Pour the mixture through a sieve held over a bowl. The smaller particles will get through it into the bowl and the larger particles will be caught in the sieve.

Reversible	Irreversible
Chocolate melting Wax melting Sugar dissolving Water boiling Puddle Evaporating Water condensing Melting butter Ice melting Oil and water mixing	Bread Toasting Candle burning Wood burning Biscuits baking Potatoes boiling Milk and Vinegar Mixing Cake baking

Irreversible changes

A change is called irreversible if it cannot be changed back again.

In an irreversible change, new materials are always formed. Sometimes these new materials are useful to us.

Heating

Heating can cause an irreversible change. For example you heat a raw egg to cook it. The cooked egg cannot be changed back to a raw egg again.

Mixing

Mixing substances can cause an irreversible change. For example, when vinegar and bicarbonate of soda are mixed, the mixture changes and lots of bubbles of carbon dioxide are made. These bubbles and the liquid mixture left behind, cannot be turned back into vinegar and bicarbonate of soda again.

Burning

Burning is an example of an irreversible change. When you burn wood you get ash and smoke. You cannot change the ash and smoke back to wood again.