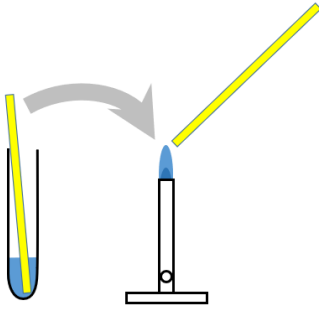
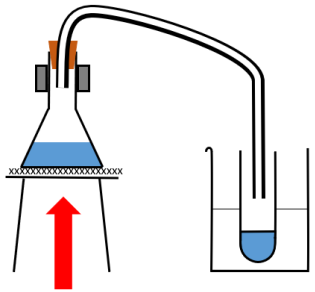
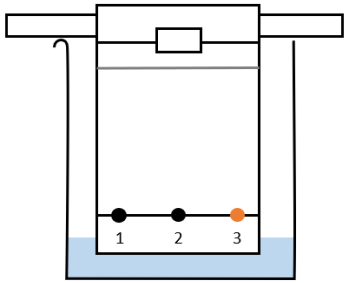
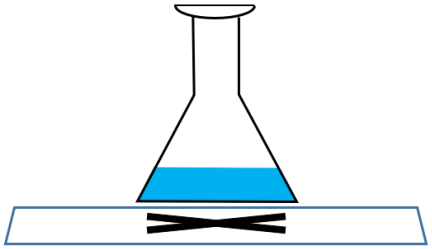
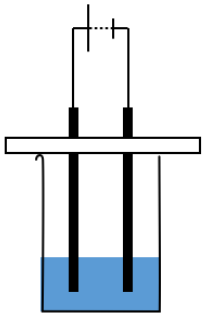
Titration	 © Dan Bright	This technique allows the concentration of a chemical in a solution to be determined.	This bioanalytical scientist analyses concentrations of new medicines in patients.
Identifying ions		Ions tests can be used to identify the presence of a particular metal and non-metal ions.	This scientist looks for impurities in food and pharmaceuticals to check that they are safe for us.
Simple distillation		Distillation can be used to separate substances with different boiling points e.g. purifying water.	This chemistry engineer monitors water purity to make sure that it is pure enough to be used in the power station.

Chromatography		This technique can be used to separate, identify and purify the compounds in a mixture.	This forensic scientist works for the police, analysing biological samples for drugs.
Rates of reaction		To make reactions as efficient as possible scientists need to understand how different conditions change their speed.	This scientist uses computers to model reactions so they can pick out the ones that will make successful medicines.
Electrolysis		This technique can be used to separate metals from all sorts of sources, for example metal ores or batteries.	This researcher is working on the best way to recycle metals from the batteries in electric cars.

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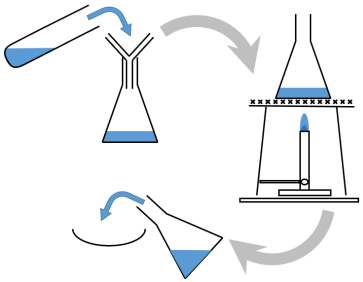
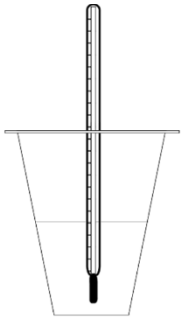
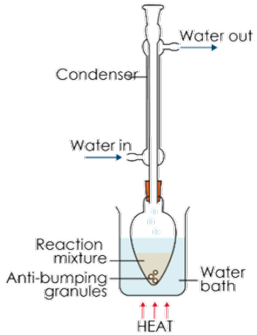
Making salts		There is more to this type of compound than just cooking. They play important roles in medicine, agriculture and dyeing to name just a few.	This software developer helps scientist find molecules with the correct structure for a specific job.
Measuring energy changes		Understanding how different reactions absorb or release energy is important so scientists know how they can be used.	This chemist has made energy-generating coatings for buildings.
Organic synthesis		Understand how organic molecules can react together to make new substances with specific properties.	This chemist is making peptides that could be used in new life-changing medicines.