

# Acids and Bases

## Keywords:

Hazard, acid, alkali, neutralisation, base



## Science Submission

Weekly deadlines will be set by your teacher

Research	Produce a leaflet showing 5 different careers you can do using Chemistry. (300 words)	Produce leaflet/poster on toxicologists and forensic scientists. (200 words)	Find out what jobs a Chemistry degree can lead to (at least 3). ( 100 words)
Creative	Design a science safety poster to show what the new CLEAPPs hazard symbols mean and how to stay safe in the lab.	Design a science safety poster to show how to be safe with a range of chemicals and apparatus including acids and bases	Design a science safety poster to show how to be safe when working with acids and alkalis.
Literacy	Produce an informative poster to explain the differences between an acid and alkali with word equations to show neutralisation. (300 words)	Produce an informative poster to explain the differences between an acid and alkali with uses for each. (200 words).	Produce an informative poster to explain the differences between an acid and alkali. (100 words).
	I	E	S

**Connectives:** and; because; also; furthermore; in addition.

**Ordering:** Firstly, secondly, finally.

**Comparing:** however, but, in contrast to

All work must be in your own words- not copied and pasted.  
You can receive up to 5 merits for your homework based on how much effort you put in!

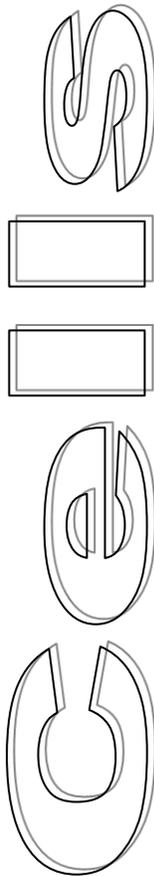
**Keywords:**

cell, tissue, organ, specialised, respiration, system, nucleus, cytoplasm, cell membrane



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Research	Produce a timeline on the development of the 'Cell Theory'. You should include the work of at least 5 scientists and show how ideas about what living things are made of have changed from ancient Greek to modern times. (300 words)	Find out how the 'Cell Theory' was developed. Include the work of at least 3 scientists e.g. Hooke, Schwann and Schleiden. (200 words)	Find out how the 'cell theory' was discovered. Include the work of a scientist like Robert Hooke. (100 words)
Creative	Design and make a model and a poster on a specialised plant and animal cell and explain how they are similar and different. (300 words)	Design and make a model and a poster on a specialised plant or animal cell e.g. a motor neurone cell, a palisade cell. (200 words)	Design and make a model and a poster on a plant or animal cell. (100 words)
Literacy	Design a poster to explain the benefits of organ or blood donation and what a 'living donation' is. (200 words)	Design a poster to either persuade people to sign up to the organ donor register or to donate blood identifying the benefits of doing this. (200 words).	Design a poster to either persuade people to sign up to the organ donor register or to donate blood. (100 words)
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**Keywords:**

solvent, solute, mixture, separate, filter, evaporate, condense, distillation

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# MIXTURES

Research	Produce a leaflet showing uses of filtration, chromatography and distillation. (300 words)	Produce leaflet/poster on how chromatography and distillation are used. (200 words)	Find out how chromatography is used. (100 words)
Creative	Design one invention to make clean drinking water from river water and another to make clean drinking water from sea water. Explain why there are two different methods (300 words).	Design an invention that will make clean drinking water like a solar still. You should explain the science behind your invention. (200 words)	Design an invention that will make clean drinking water. You should explain the science behind your invention. (100 words)
Literacy	Produce an informative poster on 'how to grow crystals' for a science fair project. You could include some photos of crystals you have grown! (200-300 words)	Produce an informative poster to explain the describe how to safely make copper sulphate crystals in the lab. (200 words)	Produce an informative poster to explain how to make crystals from salt or sugar solution. (100 words)
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**Keywords:**

reproduction, fertilisation, external, internal, sperm, egg, placenta, umbilical cord, pregnancy, gestation, offspring



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# Reproduction

Research	Find out how a mammal, amphibian and bird reproduce and how they care for their young. You should be able to identify how the length of care is linked to the survival of the species. (300 words)	Find out how 2 different species (a mammal and an amphibian) reproduce and whether they care for their young and how. (200 words)	Find out how your favourite animal reproduces (internal or external fertilisation) and how it cares for its young. (100 words)
Creative	Design a poster to compare the life cycle of a frog and a human. Identify how the life cycle of a human is similar to that of other mammals e.g. blue whales (300 words)	Design a poster to compare the life cycle of a frog and a human. (200 words)	Design a poster to show the life cycle of a frog. (100 words)
Literacy	Write a leaflet to explain how to stay healthy during pregnancy and how to look after a new baby. You should explain the role of the placenta and things to avoid during pregnancy and why. (300 words)	Write a leaflet to explain how to stay healthy during pregnancy and how to look after a new baby. (200 words)	Write a leaflet explaining how to stay healthy during pregnancy. (100 words)
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