

Edexcel Chemistry GCSE CP 2 - Investigating pH (neutralisation)

Flashcards

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If you wanted a fixed volume of HCl for an experiment, what is the best piece of apparatus to use?







If you wanted a fixed volume of HCI for an experiment, what is the best piece of apparatus to use?

Volumetric Pipette

Greater accuracy than a measuring cylinder







How can you measure the pH of a solution?







How can you measure the pH of a solution?

Use a pH probe or add universal indicator and compare to a colour chart

- Red: strong acid (pH 1)
- Yellow: weak acid
- Green: neutral (pH 7)
- Light blue: weak alkali
- Blue/purple: strong alkali (pH 14)







What is a neutralisation reaction?







What is a neutralisation reaction?

Hydrogen ions reacting with hydroxide ions to form water







When measuring the pH change of the combination of two reactants why is it important to stir the mixture after the reactants are combined?







When measuring the pH change of the combination of two reactants why is it important to stir the mixture after the reactants are combined?

To ensure a complete reaction and that the pH is consistent throughout the mixture







How could an experiment measuring the pH using universal indicator paper be improved?







How could an experiment measuring the pH using universal indicator paper be improved?

Use a pH probe to get an accurate reading







Ca(OH)₂ can be added to HCI for neutralisation. How do you know that the HCI has been fully neutralised?







Ca(OH)₂ can be added to HCl for neutralisation. How do you know that the HCl has been fully neutralised?

The pH should be pH 7 - neutral







Ammonia solution is an alkali. What could be used to show it is alkaline?







Ammonia solution is an alkali. What could be used to show it is alkaline?

Either:

Universal indicator paper turns blue
High pH probe value around 11



