

# Worksheet 5.5

## Acids and alkalis

Listed below in the table are four common acids and three common alkalis.

1 Choose the correct formula for each compound from those given here and write them in the correct box.

NaOH    CH<sub>3</sub>COOH    Ca(OH)<sub>2</sub>    NH<sub>4</sub>OH    HCl    H<sub>2</sub>SO<sub>4</sub>    HNO<sub>3</sub>

Acid	Formula	Alkali	Formula
hydrochloric acid		sodium hydroxide	
sulfuric acid		ammonia solution	
ethanoic acid		limewater	
nitric acid			

2 Look at all the acid formulae. What element do they all contain?

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3 Look at all the alkali formulae. What **two** elements do they all contain?

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4 All acids, when they are dissolved in water, produce an excess of hydrogen ions with formula .....

5 All alkalis, when they are dissolved in water, produce an excess of hydroxide ions with formula .....

6 When acids and alkalis react, these two ions combine to form water. This reaction is called **neutralisation**. Write the ionic equation for the neutralisation reaction.

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