## AQA, OCR, Edexcel

## GCSE Science

## GCSE Chemistry

Acids and PH Answers


Total Marks: /18

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## The pH scale and neutralisation

Q1: Complete the following sentences.
A= Acids produce hydrogen ions (1 mark) ions in aqueous solutions. Aqueous solutions of alkalis contain hydroxide (1 mark) ions.

Q2: How can pH be measured?
A= Universal indicator (1 mark) or a pH probe (1 mark).

Q3: What is the pH of a neutral solution?
$A=7$

Q4: Indicate on the pH scale below, the pHs of aqueous solutions of acids and alkalis.

$A=$ indicate that acid is less than 7 (1 mark) and that alkali is more than 7 (1 mark).

Q5: In neutralisation reactions between an acid and alkali. Hydrogen ions react with hydroxide ions to produce water. Represent this in an equation.


## Strong and weak acids

Q6: Complete the sentences using the words in the boxes.
A strong (1 mark) acid is completely (1 mark) ionised in aqueous solution. A weak acid is partially (1 mark) ionised in aqueous solution.

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Q7: Give three examples of strong acids and two examples of weak acids.

| Strong acids | Weak acids |
| :--- | :--- |
| Hydrochloric acid | Ethanoic acid |
| Nitric acid | Citric acid |
| Sulphuric aid | Carbonic acid |

Q8: If the pH decreases by one unit, by what factor does the ion concentration increase by?
10

