

AQA, OCR, Edexcel

GCSE Science

GCSE Chemistry

Acids and PH
Questions

M M E

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Total Marks: /18

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The pH scale and neutralisation

Q1: Complete the following sentences.

Acids produce _____ ions in aqueous solutions. Aqueous solutions of alkalis contain _____ ions.

(2 marks)

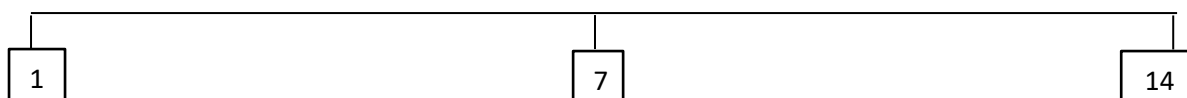
Q2: How can pH be measured?

(2 marks)

Q3: What is the pH of a neutral solution?

(1 mark)

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



(2 marks)

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

(1 mark)

Strong and weak acids

Q6: Complete the sentences using the words in the boxes.

A _____ acid is _____ ionised in aqueous solution. A weak acid is _____ ionised in aqueous solution.

(3 marks)

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

| Strong acids | Weak acids |
|---------------------|-------------------|
| 1. | 1. |
| 2. | 2. |
| 3. | 4. |

(6 marks)

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

(1 mark)