Acids and alkalis

Reactions 3.6.2 | Part 1, usually Year 7 | 20 quick questions

KS3 science quick questions

Answer online, marked instantly

Activate 1: Acids and alkalis | Exploring Science 7F

Name: _____ **Date:** _____ **Score:** _____ **/ 20**

1 Pure water has a pH of 7. Which word describes a solution with a pH of 7?

2 Lemon juice has a pH of about 2. Is it an acid or an alkali?

3 Oven cleaner has a pH of about 13. Is it an acid or an alkali?

4 The pH scale usually runs from 0 up to which number?

5 What is the name for a substance that changes colour to show whether a solution is acidic or alkaline?

6 Universal indicator is added to a strong acid. What colour does it turn?

7 Universal indicator is added to pure water. What colour does it turn?

8 Universal indicator is added to a strong alkali. What colour does it turn?

9 Blue litmus paper is dipped into vinegar. What colour does it turn?

10 An acid reacts with an alkali and the solution ends up with a pH of 7. What is this type of reaction called?

11 Complete the word equation: acid + alkali → salt + ?

12 Hydrochloric acid reacts with sodium hydroxide. Name the salt that is made.

13 Salts made from sulfuric acid have names that end in which word?

14 Salts made from nitric acid have names that end in which word?

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15 A bottle of strong acid has a hazard symbol showing a hand being eaten away. Which word describes a substance that can destroy skin?

Year 9 stretch

16 Water is added to some acid to make it more dilute. Does the pH go up or down?

17 Too much acid in the stomach can cause indigestion. Should a tablet that eases it be acidic, alkaline or neutral?

18 A base is a substance that neutralises an acid. What special name is given to a base that dissolves in water?

19 Magnesium reacts with sulfuric acid. Name the salt that is made.

20 Explain the difference between a concentrated acid and a dilute acid.

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