

Quiz questions – Acids

- Which one of the following substances is an acid?
 - Lemon juice
 - Salt solution
 - Bleach
 - Water

A. Lemon juice
- Acids and alkalis can cause some dyes to change colour. These dyes are called:
 - Solutions
 - Mixtures
 - Indicators
 - Solvents

C. Indicators
- What colour does Universal indicator turn in strong acid?
 - Orange
 - Green
 - Blue
 - Red

D. Red
- The pH scale can be used to tell the strength of an acid or alkali. What pH number indicates an alkali?
 - Less than 7
 - Greater than 7
 - Exactly 7
 - Any number

C. Greater than 7
- Neutralisation can be described as:
 - An acid and an alkali cancelling each other out
 - An acid becoming clearer in colour
 - Salt dissolving in water
 - Bubbles of gas appearing

A. An acid and an alkali canceling each other out

6. Indigestion is caused by too much acid in the stomach. It can be cured by taking antacids. These work because:
- A. They neutralise the acid
 - B. They taste nice
 - C. They lower the pH in the stomach
 - D. They make the acid more concentrated
- A. They neutralise the acid
7. Some acids should be treated very carefully. This is because:
- A. They are red
 - B. They are corrosive
 - C. They taste sour
 - D. None of these
- B. They are corrosive
8. Hydrochloric acid has a pH of 1. If *just enough* sodium hydroxide was added to neutralise some of the acid, the final pH would be:
- A. 1
 - B. 7
 - C. 5
 - D. 9
- B. 7
9. When an acid is added to an alkali what happens to the pH?
- A. It goes up
 - B. It goes down
 - C. It stays the same
 - D. None of these
- A. It goes up
10. One strong alkali that can be used in the home is:
- A. Bleach
 - B. Vinegar
 - C. Soup
 - D. Lemon juice
- A. Bleach

11. A weak acid will have a pH of:
- A. 0-3
 - B. 4-6
 - C. 7
 - D. 8-14
- B. 4-6
12. Which piece of equipment should always be used when handling acids and alkalis?
- A. Tongs
 - B. Tripod
 - C. Gauze
 - D. Safety goggles
- D. Safety goggles
13. What is the pH of a neutral substance?
- A. 6
 - B. 9
 - C. 8
 - D. 7
- D. 7
14. A bee sting is acidic. To stop the pain, which of these substances could you put onto it?
- A. Vinegar
 - B. Baking soda
 - C. Lemon juice
 - D. Water
- B. Baking soda
15. When acid is added to water we say the water has:
- A. Diluted the acid
 - B. Neutralised the acid
 - C. Dissolved the acid
 - D. None of these
- A. Diluted the acid

16. One substance that can be used to make an indicator is:
- A. Vinegar
 - B. Orange juice
 - C. Red cabbage
 - D. Soap
- C. Red cabbage
17. Vinegar will have a pH of:
- A. 0-1
 - B. 3-6
 - C. 7
 - D. 8-14
- B. 3-6
18. What colour would a neutral solution go if Universal indicator was added to it?
- A. Red
 - B. Purple
 - C. Green
 - D. Blue
- C. Green
19. Which of the following substances would corrode metal the most?
- A. Sulfuric acid
 - B. Salt solution
 - C. Lemon juice
 - D. Vinegar
- A. Sulfuric acid
20. Alkalis can be as dangerous as acids. Which of these substances is the strongest alkali?
- A. Nitric acid
 - B. Soap
 - C. Sodium hydroxide
 - D. Toothpaste
- C. Sodium hydroxide