

KS3 Science Quiz Acids and Alkalis

As a Science student, you will be familiar with using pH indicators to tell whether a substance is acidic, alkaline or neutral.

See how much you have learned by trying this quiz dealing with Acids and Alkalis.



1. Which of the following substances contain acid?

- An orange
- Bleach
- Distilled water
- Washing powder

2. Which of the following substances contain an alkali?

- Baking powder
- Coca cola
- Distilled water
- Vinegar

3. Which of the following pH numbers indicates a neutral substance?

- 1
- 5
- 7
- 14

4. Which of the following pH numbers indicates a strong acid?

1

5

7

14

5. Which of the following pH numbers indicate a strong alkali?

1

5

9

14

6. Which of the following acids do we have in our stomach?

Ethanoic acid

Hydrochloric acid

Nitric acid

Sulphuric acid

7. What colour is universal indicator in strong acid?

Green

Orange

Purple

Red

8. What colour is universal indicator in a neutral solution?

Green

Orange

Purple

Red

9. What colour is universal indicator in a strong alkali?

Green

Orange

Purple

Red

10. Strong acids and strong alkalis are...

Able to turn blue litmus paper red

Corrosive and/or caustic

Sour

Sweet

KS3 Science Quiz Acids and Alkalis

1. Which of the following substances contain acid?

An orange

Bleach

Distilled water

Washing powder

Citrus fruit (oranges, lemons etc) contain citric acid

2. Which of the following substances contain an alkali?

Baking powder

Coca cola

Distilled water

Vinegar

3. Which of the following pH numbers indicates a neutral substance?

1

5

7

14

4. Which of the following pH numbers indicates a strong acid?

1

5

7

14

5. Which of the following pH numbers indicate a strong alkali?

1

5

9

14

Hydrangea flowers can be blue or pink depending on the pH of the soil

6. Which of the following acids do we have in our stomach?

Ethanoic acid

Hydrochloric acid

Nitric acid

Sulphuric acid

The acid kills bacteria

7. What colour is universal indicator in strong acid?

Green

Orange

Purple

Red

8. What colour is universal indicator in a neutral solution?

Green

Orange

Purple

Red

9. What colour is universal indicator in a strong alkali?

Green

Orange

Purple

Red

10. Strong acids and strong alkalis are...

Able to turn blue litmus paper red

Corrosive and/or caustic

Sour

Sweet