

Acids and Bases Quiz PDF

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What ion is released by acids in water?

- Hydroxide ion (OH⁻)
- Sodium ion (Na⁺)
- Hydrogen ion (H⁺)
- Chloride ion (Cl⁻)

Which indicator turns red in acidic solutions?

- Phenolphthalein
- Methyl orange
- Litmus paper
- Bromothymol blue

Which of the following is a property of bases?

- Conduct electricity
- Taste sour
- Feel slippery
- Turn blue litmus paper red

Which of the following are examples of strong bases?

- Sodium hydroxide
- Ammonium hydroxide
- Potassium hydroxide
- Calcium hydroxide

What is the product of a neutralization reaction between an acid and a base?

- Water and a salt
- Hydrogen gas

- Carbon dioxide
- Oxygen

Which of the following is a weak base?

- Sodium hydroxide
- Ammonia
- Potassium hydroxide
- Calcium hydroxide

Which of the following is a characteristic of acids?

- Bittersweet taste
- Slippery feel
- Sour taste
- Turns red litmus paper blue

What is the pH of a neutral solution?

- 0
- 7
- 14
- 10

Describe the process and result of a neutralization reaction between an acid and a base.

What safety precautions should be taken when handling strong acids and bases in a laboratory setting?

Explain how the pH scale is used to determine the acidity or basicity of a solution.

Discuss the differences between strong and weak acids in terms of ionization in water.

How do indicators work to show the pH level of a solution? Provide examples.

Why is it important to understand the properties of acids and bases in everyday life? Provide specific examples.

Which of the following are properties of acids?

- Sour taste
- Turn blue litmus paper red
- Feel slippery
- Conduct electricity

Which of the following are weak acids?

- Hydrochloric acid
- Acetic acid
- Citric acid
- Sulfuric acid

Which of the following are characteristics of a neutralization reaction?

- Produces water
- Produces a salt
- Increases acidity
- Decreases pH

Which of the following substances is a strong acid?

- Acetic acid
- Hydrochloric acid
- Ammonia
- Sodium hydroxide

Which substances can act as indicators for pH?

- Litmus paper
- Phenolphthalein
- Water

Methyl orange

What are common uses of bases?

Soap making

Battery acid

Antacids

Fertilizers