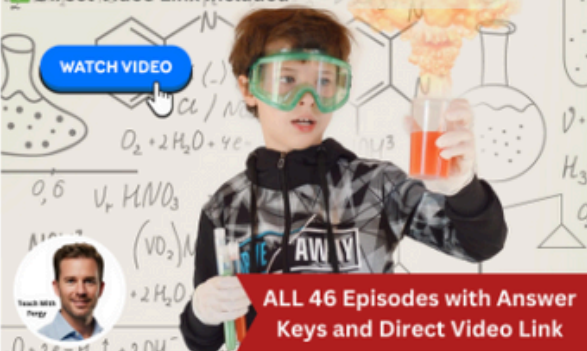


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Crash Course Chemistry #8: Acid-Base Reactions in Solution

Name: _____ Date: _____

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1. In chemistry, the worst-case scenario is not just failure, but potentially _____.
2. One of the main dangers in a lab setting is exposure to harmful _____.
3. The reaction that damaged Captain Mullan's statue is an example of an _____ reaction.
4. The acid involved in the statue's degradation was mostly _____ acid.
5. Coal burning produces sulfur dioxide, which reacts in the atmosphere to form _____ acid.
6. Acids are known for their _____ taste.
7. Bases are typically _____ to the touch and have a bitter taste.
8. When acids and bases combine, they _____ each other.
9. According to Brønsted and Lowry, an acid is a proton _____.
10. A base, as defined by Brønsted and Lowry, is a proton _____.
11. In water, a proton associates with H₂O to form the _____ ion.
12. The shorthand H⁺ in aqueous solution actually represents the _____ ion.
13. In an acid-base reaction, the acid donates a proton and becomes a _____ base.
14. The reaction between sulfuric acid and calcium carbonate produces _____ and water.
15. Limestone is primarily composed of the compound calcium _____.

Crash Course Chemistry #8: Acid-Base Reactions in Solution KEY

1. In chemistry, the worst-case scenario is not just failure, but potentially **death**.
2. One of the main dangers in a lab setting is exposure to harmful **chemicals**.
3. The reaction that damaged Captain Mullan's statue is an example of an **acid-base** reaction.
4. The acid involved in the statue's degradation was mostly **sulfuric** acid.
5. Coal burning produces sulfur dioxide, which reacts in the atmosphere to form **sulfuric** acid.
6. Acids are known for their **sour** taste.
7. Bases are typically **slippery** to the touch and have a bitter taste.
8. When acids and bases combine, they **neutralize** each other.
9. According to Brønsted and Lowry, an acid is a proton **donor**.
10. A base, as defined by Brønsted and Lowry, is a proton **acceptor**.
11. In water, a proton associates with H₂O to form the **hydronium** ion.
12. The shorthand H⁺ in aqueous solution actually represents the **hydronium** ion.
13. In an acid-base reaction, the acid donates a proton and becomes a **conjugate** base.
14. The reaction between sulfuric acid and calcium carbonate produces **CO₂** and water.
15. Limestone is primarily composed of the compound calcium **carbonate**.

15 Questions

Answer Key Included

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