

NAME : \_\_\_\_\_

CLASS : \_\_\_\_\_

DATE : \_\_\_\_\_

1. Metals and acids react to form .....

- |  |  |
|--|--|
| <input type="checkbox"/> a) Salt and hydrogen              | <input type="checkbox"/> b) Salt and water |
| <input type="checkbox"/> c) Carbon dioxide, salt and water | <input type="checkbox"/> d) Hydrogen only  |

2. Magnesium + hydrochloric acid-->

- |  |   |
|--|---|
| <input type="checkbox"/> a) Magnesium chloride + water         | <input type="checkbox"/> b) Magnesium chloride + hydrogen               |
| <input type="checkbox"/> c) Magnesium hydrochloride + hydrogen | <input type="checkbox"/> d) Magnesium chloride + water + carbon dioxide |

3. Zinc + sulfuric acid -->

- |  |   |
|--|---|
| <input type="checkbox"/> a) Zinc sulfide + hydrogen              | <input type="checkbox"/> b) Zinc sulfate + hydrogen |
| <input type="checkbox"/> c) Zinc sulfate + Water +Carbon dioxide | <input type="checkbox"/> d) Zinc sulfide + water    |

4. Iron + hydrochloric acid -->

☐ a) Iron chloride + hydrogen

☐ c) Iron hydroxide + acid

☐ b) Iron chloride + carbondioxide

☐ d) Iron chloric + hydrogen

5. How do we test for hydrogen?

☐ a) Gives a pop sound using lighted splint

☐ c) Bubbling through lime water

☐ b) Hydrogen extinguishes a lit splint

☐ d) Hydrogen makes a glowing splint relight

6. Metal carbonates react with acid to form....

☐ a) Salt, carboxylic acid and water

☐ c) Salt and carbonated water

☐ b) Salt, carbon dioxide and water

☐ d) Salt and hydrogen

7. Calcium carbonate + hydrochloric acid -->

☐ a) Calcium chloride + hydrogen

☐ c) Calcium chloride + carbon dioxide +  
water

☐ b) Calcium choride + water

☐ d) Calcium sulfate + carbon dioxide + water

8. Copper carbonate + hydrochloric acid -->

- |  |   |
|--|---|
| <input type="checkbox"/> a) Copper chloride + hydrogen         | <input type="checkbox"/> b) Copper chloride + water                 |
| <input type="checkbox"/> c) Copper chloride + water + hydrogen | <input type="checkbox"/> d) Copper chloride + water + carbondioxide |

9. Which salt will be produced if copper carbonate react with hydrochloric acid....

- |  |   |
|--|---|
| <input type="checkbox"/> a) Copper carbonate | <input type="checkbox"/> b) Copper chloride |
| <input type="checkbox"/> c) Water            | <input type="checkbox"/> d) Carbon dioxide  |

10. What gas is always produced when carbonates reacts with acids?

- |  |                                      |
|--|--------------------------------------|
| <input type="checkbox"/> a) Oxygen         | <input type="checkbox"/> b) Hydrogen |
| <input type="checkbox"/> c) Carbon dioxide | <input type="checkbox"/> d) Nitrogen |

11. What gas is always produced when a metal reacts with acid?

- |  |                                      |
|--|--------------------------------------|
| <input type="checkbox"/> a) Oxygen         | <input type="checkbox"/> b) Hydrogen |
| <input type="checkbox"/> c) Carbon dioxide | <input type="checkbox"/> d) Nitrogen |

12. What metal salt is produced when aluminium reacts with nitric acid?

- |  |   |
|--|---|
| <input type="checkbox"/> a) Copper hydroxide | <input type="checkbox"/> b) Aluminium oxide   |
| <input type="checkbox"/> c) Aluminium        | <input type="checkbox"/> d) Aluminium nitrate |

13. Which salt will be produced if magnesium react with hydrochloric acid?

- |   |  |
|---|--|
| <input type="checkbox"/> a) Magnesium oxide   | <input type="checkbox"/> b) Magnesium sulfate  |
| <input type="checkbox"/> c) Magnesium sulfide | <input type="checkbox"/> d) Magnesium chloride |

14. Which of the following neutralisation reactions produces a gas of carbon dioxide?

- |   |   |
|---|---|
| <input type="checkbox"/> a) Hydrochloric acid and metal oxide | <input type="checkbox"/> b) Nitric acid and metal hydroxide |
| <input type="checkbox"/> c) Sulfuric acid and metal           | <input type="checkbox"/> d) Nitric acid and metal carbonate |

15. Sulfuric acid + Calcium hydroxide =

- |  |  |
|--|--|
| <input type="checkbox"/> a) Calcium acid + water     | <input type="checkbox"/> b) Calcium sulfate + water      |
| <input type="checkbox"/> c) Sulfur hydroxide + water | <input type="checkbox"/> d) Calcium carbonate + hydrogen |