

# Middle School Science

Name:

Date:

## Types of Chemical Reactions Worksheet

This worksheet accompanies slide 11 of *Types of Chemical Reactions.ppt*

### Write the word equations

Read each question carefully and write down the word equation that describes each reaction.

#### Example:

Q. Kylie burned a canister of propane gas in oxygen. She tested the gases produced and found that they were carbon dioxide gas and water:

A. Word equation: *propane + oxygen → carbon dioxide + water*

#### Questions:

1. Amir added some hydrochloric acid to some sodium hydroxide. The products of the reaction were sodium chloride and water.

Word equation: .....

2. Danielle burned a small piece of sodium in oxygen to make sodium oxide, a white powder.

Word equation: .....

3. Emma burned some methane gas, which meant that it reacted with oxygen from the air. The reaction produced carbon dioxide gas and water.

Word equation: .....

4. Scott heated a small piece of calcium carbonate. It gave off carbon dioxide gas and solid calcium oxide was left behind.

Word equation: .....

5. Zhang dropped a piece of calcium carbonate into a beaker of hydrochloric acid. It fizzed and gave off carbon dioxide gas and left behind calcium chloride solution and water.

Word equation: .....

6. Chelsea poured some nitric acid into a beaker and added a few drops of universal indicator. She added lithium hydroxide until the solution was neutral. She was left with water and lithium nitrate.

Word equation: .....

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7. When plants carry out photosynthesis they use light energy from the Sun to turn carbon dioxide and water into oxygen and glucose.

Word equation: .....

8. Respiration is a chemical reaction in which glucose and oxygen react together to make carbon dioxide and water.

Word equation: .....