

Changing Word Equations to Chemical Equations

Name: _____

1. Sodium reacts with water to form sodium hydroxide and hydrogen gas.

a) Write the above reaction as a word equation.

Sodium + water $\rightarrow$ sodium hydroxide + hydrogen

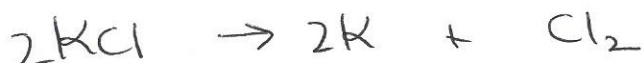
b) Change the word equation above into a chemical equation by replacing each word with the correct formula for the element/compound.

**2. Potassium chloride decomposes to form potassium and chlorine gas.**

a) Write the above reaction as a word equation.

potassium chloride $\rightarrow$ potassium + chlorine

b) Change the word equation above into a chemical equation by replacing each word with the correct formula for the element/compound.

**3. Hydrochloric acid reacts with calcium hydroxide to form water and calcium chloride.**

a) Write the above reaction as a word equation.

hydrochloric acid + calcium hydroxide $\rightarrow$ water + calcium chloride

b) Change the word equation above into a chemical equation by replacing each word with the correct formula for the element/compound.

**4. Zinc carbonate $\rightarrow$ zinc oxide + carbon dioxide**

Write the above word equation as a chemical equation.

**5. Sodium hydrogen carbonate $\rightarrow$ sodium oxide + water + carbon dioxide**

Write the above word equation as a chemical equation.

