Name: _____ Date: _____ Class: _____

Types of Reactions Worksheet

prtutorial

Identify and complete the different types of chemical reactions.

A. Identify the type of reaction. Write synthesis, decomposition, single replacement, double replacement, or combustion.

1. $2H_2 + O_2 \rightarrow 2H_2O$ _____
2. $2KClO_3 \rightarrow 2KCl + 3O_2$ _____
3. $Zn + 2HCl \rightarrow ZnCl_2 + H_2$ _____
4. $AgNO_3 + NaCl \rightarrow AgCl + NaNO_3$ _____
5. $C_3H_8 + 5O_2 \rightarrow 3CO_2 + 4H_2O$ _____

B. Complete and balance each reaction.

1. ____ Al + ____ $O_2 \rightarrow 2Al_2O_3$
2. $2K$ + ____ $Cl_2 \rightarrow 2KCl$
3. ____ $Na + H_2O \rightarrow NaOH$ + ____ H_2
4. CH_4 + ____ $O_2 \rightarrow CO_2 + 2H_2O$
5. ____ $Ca(OH)_2 + 2HCl \rightarrow CaCl_2 + 2H_2O$

C. Answer the questions.

1. What is a synthesis reaction? Give one example.

   _____

2. What is a decomposition reaction? Give one example.

   _____

3. What is a single replacement reaction? Give one example.

   _____

4. What is a double replacement reaction? Give one example.

   _____

5. What is a combustion reaction? Give one example.

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