Name _____ Date _____ Class _____

REVIEW

5 SECTION 5.2

Reaction Types

1. **Name** the compound that is a reactant in all combustion reactions.

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2. **Explain** how you can determine if a chemical reaction represents a single-replacement reaction or a double-replacement reaction.

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3. **Describe** what happens during a reduction/oxidation reaction.

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4. **Identify** which element is reduced and which is oxidized in the following equations:

   a. $Cu + 2AgNO_3 \rightarrow Cu(NO_3)_2 + 2Ag$

   _____

   b. $2Al + 3CuSO_4 \rightarrow 3Cu + Al_2(SO_4)_3$

   _____

5. **Classify** each of the following reactions:

   _____ **a.** $2C_8H_{18} + 25O_2 \rightarrow 16CO_2 + 18H_2O$

   _____ **b.** $Ca + S \rightarrow CaS$

   _____ **c.** $Ca_3(PO_4)_2 + 3H_2SO_4 \rightarrow 3CaSO_4 + 2H_3PO_4$

   _____ **d.** $SiO_2 + 2C \rightarrow Si + 2CO$

   _____ **e.** $2CaCO_3 \rightarrow 2Ca + 2C + 3O_2$

6. **Summarize** each of the five general types of chemical reactions.

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