Name	Class	Date

Skills Worksheet )

## **Concept Review**

## **Section: Classifying Chemical Reactions**

Answer the following items in the space provided.

- 1. Your reactants are two elements. Your product is a binary compound. What type of reaction do you have?
- 2. Your reactants are a hydrocarbon and oxygen. Your products are carbon dioxide and water. What type of reaction do you have?
- **3.** You have one reactant and two elements for products. What type of reaction do you have?
- **4.** Your reactants are an element and a compound that is not a hydrocarbon. What type of reaction do you probably have?
- **5.** Your reactants are two compounds composed of ions. What type of reaction do you probably have?

Classify the reaction type for each of the following reactions. Briefly explain the reason for your selection.

- **6.**  $2C_6H_{14}(l) + 19O_2(g) \rightarrow 14H_2O(g) + 12CO_2(g)$
- **7.**  $4\text{Fe}(s) + 3\text{O}_2(g) \rightarrow 2\text{Fe}_2\text{O}_3(s)$
- 8.  $2AlCl_3(s) \rightarrow 2Al(s) + 3Cl_2(g)$

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	mical equation for the com n dioxide. Be sure to inclu	bustion of $ m C_2H_2$ gas. One of de states of matter.
	of the following reactions of the following reactions of the	can occur. If the reaction does reaction does
10. $2\operatorname{Cr}(s) + \operatorname{SnCl}_4(aq) =$	>	
,		
11. $2\text{Ni}(s) + \text{MgSO}_4(aq)$	· ·	
12. $\operatorname{Zn}(s) + \operatorname{CdCl}_2(aq) \rightarrow$		
	,	
13. $\operatorname{Ag}(s) + \operatorname{ZnCO}_3(aq) -$	<b>→</b>	>
magnesium metal. Or	<del>-</del>	tion of hydrochloric acid and esium chloride, MgCl <sub>2</sub> . Be sure on is this?
<u> </u>		