

Topic: Types of Reactions	Name:	Date:
Questions/Main Ideas:	Notes:	
Give a description of each type of reaction.	Combustion	
	exothermic reaction that results when a hydrocarbon is combined with oxygen to produce _____ and _____	
	<u>generic:</u> $C_xH_y + O_2 \rightarrow CO_2 + H_2O$ Example: $CH_4 + 2O_2 \rightarrow CO_2 + 2H_2O$	
	Synthesis/Combination	
	reaction in which _____ or molecules combine to form a more _____	
	<u>generic:</u> $X + Y \rightarrow XY$ Example: $2H_2 + O_2 \rightarrow 2H_2O$	
	Decomposition:	
	<u>generic:</u> $XY \rightarrow X + Y$ Example: $CH_3OH \rightarrow CO + 2H_2$	
	Single Replacement	
	<u>generic:</u> $XY + Z \rightarrow ZY + X$ Example: $2Al + 3CuCl_2 \rightarrow 2AlCl_3 + 3Cu$	
	Double Replacement	
	<u>generic:</u> $XY + AB \rightarrow XB + AY$ Example: $2KI + Pb(NO_3)_2 \rightarrow PbI_2 + 2KNO_3$	
How would you categorize the following reactions	$CaCO_{3(s)} \rightarrow CaO_{(s)} + CO_{2(g)}$	
	$2Na_{(s)} + 2H_2O_{(l)} \rightarrow 2NaOH_{(aq)} + H_{2(g)}$	
	$NaCl_{(aq)} + AgNO_{3(aq)} \rightarrow NaNO_{3(aq)} + AgCl_{(s)}$	
	$MgO_{(s)} + H_2O_{(l)} \rightarrow Mg(OH)_{2(s)}$	
	$2NaCl_{(l)} \rightarrow 2Na_{(s)} + Cl_{2(g)}$	
	$2C_4H_{10(g)} + 13O_{2(g)} \rightarrow 8CO_{2(g)} + 10H_2O_{(g)}$	
Summary and Question(s) I have: (At least 3 sentences)		

