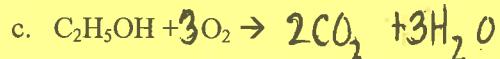
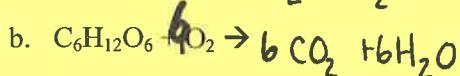
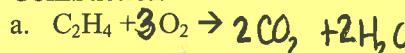


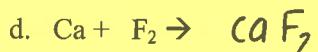
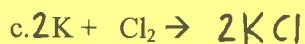
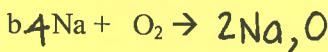
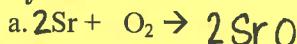
Predict the products and write the balanced equation for each of these reactions:

Key

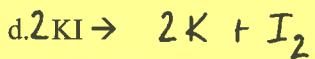
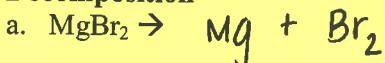
**Combustion**



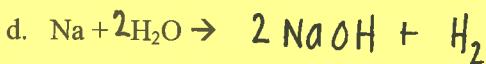
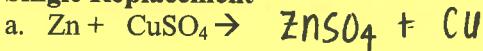
**Synthesis**



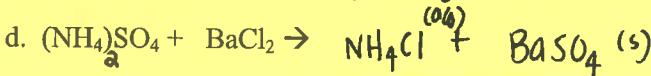
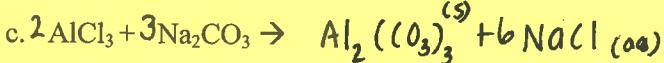
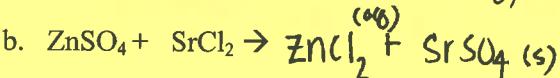
**Decomposition**



**Single Replacement**



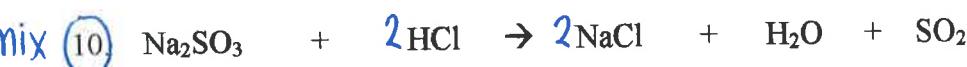
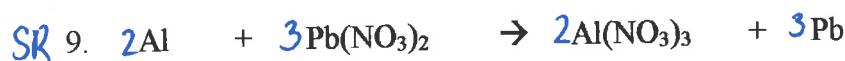
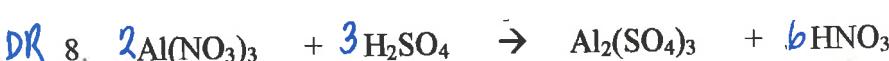
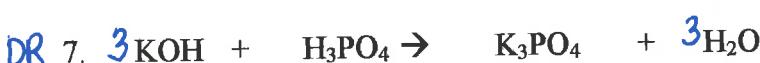
**Double Replacement**



Key

## Chemical Reactions – Equation Worksheet

Balance the following equations, then state what type of reaction it is.



In the following equations, the reactants are written correctly. Identify the type of chemical reaction it is, then complete the equation by writing the correct products and balance it.

	Type of Reaction
1. $2\text{HgO} \rightarrow 2\text{Hg} + \text{O}_2$	Decomposition
2. $2\text{Mg} + \text{O}_2 \rightarrow 2\text{MgO}$	Synthesis
3. $2\text{K} + 2\text{H}_2\text{O} \rightarrow 2\text{KOH} + \text{H}_2$	Single Replacement
4. $\text{CaO} + 2\text{HCl} \rightarrow \text{CaCl}_2 + \text{H}_2\text{O}$	Double Replacement
5. $2\text{NaClO}_3 \rightarrow 2\text{NaCl} + 3\text{O}_2$	Decomposition
6. $3\text{Zn} + 2\text{H}_3\text{PO}_4 \rightarrow \text{Zn}_3(\text{PO}_4)_2 + 3\text{H}_2$	Single Replacement
7. $\text{Si} + 2\text{Cl}_2 \rightarrow \text{SiCl}_4$	Synthesis
8. $\text{Al}(\text{NO}_3)_3 + 3\text{NH}_4\text{OH} \rightarrow \text{Al}(\text{OH})_3 + 3\text{NH}_4\text{NO}_3$	Double Replacement
9. $2\text{AgNO}_3 + \text{CaSO}_4 \rightarrow \text{Ag}_2\text{SO}_4 + (\text{Ca}(\text{NO}_3)_2)_{(\text{aq})}$	Double Replacement
10. $\text{Cl}_2 + \text{AlF}_3 \rightarrow \text{NR}$  F <sub>2</sub> → can't replace F <sub>3</sub> Cl <sub>2</sub> Br <sub>2</sub>	No Reaction