

NAME:

HONORS CHEMISTRY

SECTION:

Predicting Products of Chemical Reactions

Directions:

First, based on the nature of the reactants, classify the following reactions as synthesis, decomposition, single replacement, double displacement, or combustion. Then, predict the products and balance the equation, using the lowest whole number coefficients. Make sure the formulas of your products are written correctly before balancing. Finally, determine if the reaction is a redox reaction.

Class of reaction	Predict products and balance	Redox (Y/N)?
1.	___ Ca + ___ Al(NO <sub>2</sub> ) <sub>3</sub> →	
2.	___ C <sub>4</sub> H <sub>10</sub> + ___ O <sub>2</sub> →	
3.	___ Li + ___ P <sub>4</sub> →	
4.	___ GaN →	
5.	___ Ba + ___ H <sub>3</sub> PO <sub>4</sub> →	
6.	___ Ag <sub>2</sub> O →	
7.	___ Ca + ___ Br <sub>2</sub> →	
8.	___ AlBr <sub>3</sub> + ___ Cl <sub>2</sub> →	
9.	___ AgNO <sub>3</sub> + ___ Na <sub>2</sub> SO <sub>4</sub> →	
10.	___ AuCl →	
11.	___ C <sub>6</sub> H <sub>6</sub> + ___ O <sub>2</sub> →	
12.	___ Ba(OH) <sub>2</sub> + ___ HClO <sub>4</sub> →	