

QUIZ #42

Reaction Prediction PRACTICE TEST

Name: _____

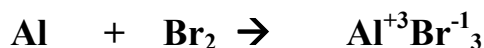
Chemistry – Block _____

Date: _____

Directions: For each of the following problems, choose the BEST answer and fill in the appropriate space on your scantron sheet. You MAY write on these pages to help you determine the answers. This packet WILL BE TURNED IN. However, only your scantron sheet will be graded.

Special note: The questions on this quiz are VERY SIMILAR in design to the kind of questions you will have on your TEST.

1. What numerical coefficient should be placed in front of **aluminum** when the following equation is balanced?



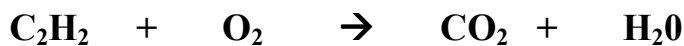
- A. 1
- B. 2
- C. 3
- D. 4
- E. none of the above

2. What numerical coefficient should be placed in front of **iron(II) phosphate** when the following equation is balanced?



- A. 2
- B. 3
- C. 4
- D. 5
- E. none of the above

3. What numerical coefficient should be placed in front of **water** when the following equation is balanced?



- A. 2
- B. 3
- C. 4
- D. 5
- E. none of the above

For the following reactions, identify the type of reaction from the list below:

- A. single replacement
- B. double replacement
- C. composition / synthesis
- D. decomposition
- E. combustion

4. $\text{Na} + \text{O}_2 \rightarrow$
5. $\text{AuO} \rightarrow$
6. $\text{MgF}_2 + \text{Ca} \rightarrow$
7. $\text{LiOH} + \text{FeCl}_3 \rightarrow$
8. $\text{NaOH} + \text{HCl} \rightarrow$
9. $\text{C}_2\text{H}_6 + \text{O}_2 \rightarrow$
10. $\text{CaCO}_3 \rightarrow$

For the following reactions, PREDICT THE PRODUCTS AND THEN BALANCE THE EQUATION. Then, choose the proper numerical coefficient from the list provided to match the appropriate products or reactants.

- A. 1
- B. 2
- C. 3
- D. 4
- E. none of the above

11. For the reaction, $\text{Na} + \text{O}_2 \rightarrow$
what is the numerical coefficient for the *product*?
12. For the reaction, $\text{Ag}_2\text{O} \rightarrow$
what is the numerical coefficient for the *product oxygen*?
13. For the reaction, $\text{MgCl}_2 + \text{Li} \rightarrow$
what is the numerical coefficient for the *product magnesium*?
14. For the reaction, **zinc and copper (II) sulfite** \rightarrow
what is the numerical coefficient for the *product copper*?
15. For the reaction, **potassium bromide and lead (II) nitrate** \rightarrow
what is the numerical coefficient for the *product potassium nitrate*?