**Classifying Reactions**

Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Block: \_\_\_\_\_\_\_

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Balance the following reactions and classify them as synthesis, decomposition, sigle replacement, double replacement, neutralization or combustion.

1. \_\_\_ PbCl2 + \_\_\_ AgNO3 🡪 \_\_\_ Pb(NO3)2 + \_\_\_ AgCl

2. \_\_\_ NH3 + \_\_\_ HCl 🡪 \_\_\_ NH4Cl

3. \_\_\_ AlCl3 + \_\_\_ Na2SO4 🡪 \_\_\_ Al2(SO4)3 + \_\_\_ NaCl

4. \_\_\_ Zn + \_\_\_ S 🡪 \_\_\_ ZnS

5. \_\_\_ Al2(SO4)3 + \_\_\_ BaCl2 🡪 \_\_\_ BaSO4 + \_\_\_ AlCl3

6. \_\_\_ Al2S3 🡪 \_\_\_ Al + \_\_\_ S

7. \_\_\_ H2SO4 + \_\_\_ Fe 🡪 \_\_\_ H2 + \_\_\_ FeSO4

8. \_\_\_ C12H22O11 + \_\_\_ O2 🡪 \_\_\_ CO2 + \_\_\_ H2O

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| **Type** |
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9. \_\_\_ Mg(OH)2 + \_\_\_ H2SO4 🡪 \_\_\_ MgSO4 + \_\_\_ H2O

10. \_\_\_ NaOH + \_\_\_ CuSO4 🡪 \_\_\_ Na2SO4 + \_\_\_ Cu(OH)2

11. \_\_\_ C4H12 + \_\_\_ O2 🡪 \_\_\_ H2O + \_\_\_ CO2

12. \_\_\_ Fe + \_\_\_ O2 🡪 \_\_\_ Fe2O3

13. \_\_\_ Mg3(PO4)2 + \_\_\_ H2 🡪 \_\_\_ Mg + \_\_\_ H3PO4

14. \_\_\_ NH4NO3 🡪 \_\_\_ N2O + \_\_\_ H2O

15. \_\_\_ Cl2 + \_\_\_ KBr 🡪\_\_\_ KCl + \_\_\_ Br2