Chemistry B Name\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Period\_\_\_\_\_\_

**Practice Predicting Products of Reactions**

**Synthesis**

1. [hydrogen burned in oxygen](http://www.chem.vt.edu/RVGS/ACT/notes/scripts/predict_s1.html)
2. [hydrogen gas + nitrogen gas](http://www.chem.vt.edu/RVGS/ACT/notes/scripts/predict_s2.html)
3. [sulfur burned (complete combustion)](http://www.chem.vt.edu/RVGS/ACT/notes/scripts/predict_s3.html)
4. [calcium oxide added to water](http://www.chem.vt.edu/RVGS/ACT/notes/scripts/predict_s4.html)

**Decomposition**

1. [barium hydroxide (heated)](http://www.chem.vt.edu/RVGS/ACT/notes/scripts/predict_d1.html)
2. [sodium carbonate (heated)](http://www.chem.vt.edu/RVGS/ACT/notes/scripts/predict_d2.html)
3. [lithium chlorate (heated)](http://www.chem.vt.edu/RVGS/ACT/notes/scripts/predict_d3.html)
4. [electrolysis of aluminum oxide](http://www.chem.vt.edu/RVGS/ACT/notes/scripts/predict_d4.html)
5. [sulfuric acid heated gently](http://www.chem.vt.edu/RVGS/ACT/notes/scripts/predict_d5.html)

**Single Displacement**

1. [iron filings added to copper(II) sulfate in solution](http://www.chem.vt.edu/RVGS/ACT/notes/scripts/predict_r1.html)
2. [aluminum in hydrochloric acid](http://www.chem.vt.edu/RVGS/ACT/notes/scripts/predict_r2.html)
3. [potassium metal added to cold water](http://www.chem.vt.edu/RVGS/ACT/notes/scripts/predict_r3.html)
4. [zinc metal added to mercury(II) nitrate](http://www.chem.vt.edu/RVGS/ACT/notes/scripts/predict_r4.html)
5. [silver metal added to copper(II) sulfate](http://www.chem.vt.edu/RVGS/ACT/notes/scripts/predict_r5.html)
6. [chlorine gas bubbled through a solution of calcium bromide](http://www.chem.vt.edu/RVGS/ACT/notes/scripts/predict_r6.html)

**Double Displacement**

1. [potassium iodide added to lead(II) nitrate](http://www.chem.vt.edu/RVGS/ACT/notes/scripts/predict_i1.html)
2. [sodium sulfite combined with acetic acid](http://www.chem.vt.edu/RVGS/ACT/notes/scripts/predict_i2.html)
3. [sodium chloride added to sulfuric acid](http://www.chem.vt.edu/RVGS/ACT/notes/scripts/predict_i3.html)
4. [barium nitrate added to sodium oxalate](http://www.chem.vt.edu/RVGS/ACT/notes/scripts/predict_i4.html)
5. [sodium bicarbonate added to hydrochloric acid](http://www.chem.vt.edu/RVGS/ACT/notes/scripts/predict_i5.html)

### Equations Practice Name\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_Period\_\_\_\_

### Determine the reaction type, write and balance the equations

1) \_\_\_\_Al2(SO4)3 + \_\_\_\_Pb(NO3)2 🡪

2) \_\_\_\_Cl2 + \_\_\_\_NaI 🡪

3) \_\_\_\_H2 + \_\_\_\_O2 🡪

4) \_\_\_\_Al + \_\_\_\_CuCl2 🡪

5) \_\_\_\_Br2 + \_\_\_\_CaI2 🡪

6) \_\_\_\_CaO + \_\_\_\_H2O 🡪

7) \_\_\_\_Mg(OH)2 + \_\_\_\_HCl 🡪

8) \_\_\_\_Zn + \_\_\_\_H2SO4 🡪

9) \_\_\_\_CH4 +\_\_\_\_ O2 🡪

10) \_\_\_\_Cl2 + \_\_\_\_MgI2 🡪

11) \_\_\_ NaOH + \_\_\_ CaBr2 🡪

12) \_\_\_ Pb(NO3)2 + \_\_\_ HCl 🡪

13) \_\_\_ AgNO3 + \_\_\_ CuSO4 🡪

14) \_\_\_ AgF + \_\_\_ NiCl2 🡪

15) \_\_\_\_KI + \_\_\_\_AgNO3🡪

16) \_\_\_\_Ba(OH)2🡪

17) \_\_\_\_H2SO4🡪

18) \_\_\_\_LiClO3 🡪

19) \_\_\_\_Al2O3 🡪

20) \_\_\_\_C3H8 + O2🡪