## **Predicting Products Practice**

Name: Hey

For each of the following:

- a) classify the reaction
- b) write the equation with correct formulas
- c) balance the equation
- a. A strip of calcium metal is combined with oxygen in a Bunsen burner flame.

Classification: 540

2 Ca(s) + 102(g) -> 2 CaO(s)

b. A piece of sodium metal is placed in an aqueous solution of lead (II) oxide.

Classification: 5, 2

2 Na(s) + 1 PbO(ag) -> 1 NaO(ag) + 1 Pb(s)

c. Aqueous lithium nitrate solution is combined with aqueous aluminum sulfate.

Classification: D. 2.

6 L: NO3(ag) + 1 A/2(504)3(ag) -> 3 Liz504(ag) + 2 A/(NO3)3(ag)

d. Glucose (C<sub>6</sub>H<sub>12</sub>O<sub>6</sub>) is heated (combined with oxygen) in a flame.

Classification: Coma

1 (6H1206 (5) + 602(g) -> 602(g) + 6 H20(d)

e. An aqueous solution of barium hydroxide is mixed with aqueous iron (III) sulfate.

Classification:

3 Ba (OH)2 (ab) + \_ Fez (504)3(98) -> 3 Ba SQU(ab) + 2 FelOH)3(5)

f. Magnesium metal is burned in nitrogen gas.

Classification: 5 YA

3 mg (s) + 1 Nz(g) - 1mg3Nz(s)

g. Ethanol (C<sub>2</sub>H<sub>5</sub>OH) is burned completely in air.

Classification: Lowr

LC2H6O(e)+3O2(g)→ 童(O2(g)+色H2O(d)

h. Solid sodium nitride is heated to decomposition.

Classification: DEC

) 2 Na3N (5) -> 6 Naw + 1 Nz(9)