

Name \_\_\_\_\_

## Writing Reactions

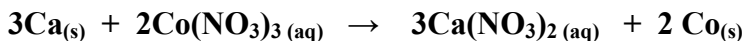
For the following reactions:

- Write the names of the product(s). (1 point)
- Identify the type of reaction. (1 point): Composition (synthesis) = C; Decomposition = D; Single replacement = SR; Double Replacement = DR; Combustion = CB
- If the reaction will not occur, just do "a" and "b".**
- Write the equation with reactants and products (don't forget the phases) (2 points)
- Balance the equation. (1 point)

Pay attention to activity table and solubility chart!!!!!!

RXN type
<u>SR</u>
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Ex. Calcium and Cobalt (III) nitrate yield (**Calcium Nitrate and Cobalt**)



1) Strontium Carbonate solid yields a metal oxide and a gas

2) Magnesium and nitrogen yield

3) The complete combustion of liquid octane (C<sub>8</sub>H<sub>18</sub>)

4) Aluminum fluoride and iodine yield

5) Nickel (II) bromide and sodium phosphate yield

6) Iron plus oxygen yields an iron (III) salt

7) Sodium chloride and calcium bromide yield

8) Copper and potassium phosphate yield (copper (II))

9) Calcium and mercury (I) nitrate yields

10) Water is broken into elements at 25<sup>0</sup>C

11) The complete combustion of propane gas (C<sub>3</sub>H<sub>8</sub>)