

B<sub>2</sub>I<sub>2</sub>N<sub>2</sub>Cl<sub>2</sub>H<sub>2</sub>O<sub>2</sub>F<sub>2</sub>

40

Name: CALVIN  
Date:  
Hour:

Chemistry ~ Ch.11 ~ Quiz

FORMULAS MUST BE CORRECT!!!

*Subscripts balance formulas! Coefficients balance equations!*

Both sides of the arrow must have the same number of *each* type of atom.

Save *Hydrogen* and *Oxygen* for last (especially combustion!)

FORMULAS MUST BE CORRECT!!!

To the LEFT of each letter ~ indicate the reaction *TYPE*.

(i.e. Combination/Synthesis, Decomp, SR, DR, Combustion)

1)

a) Strontium + Chlorine → Strontium Chloride

Synth.



2pts  
each

b) Lithium + Barium Nitrate → Barium + Lithium Nitrate

SR



SR

c)  $\underline{1} \text{Mg} + \underline{2} \text{HCl} \rightarrow \underline{1} \text{MgCl}_2 + \underline{1} \text{H}_2$

Combustion

d)  $\underline{1} \text{C}_3\text{H}_8 + \underline{5} \text{O}_2 \rightarrow \underline{4} \text{H}_2\text{O} + \underline{3} \text{CO}_2$

DR

e)  $\underline{2} \text{NaN}_3 + \underline{1} \text{MgCl}_2 \rightarrow \underline{2} \text{NaCl} + \underline{1} \text{Mg}(\text{NO}_3)_2$

Synth.

f)  $\underline{4} \text{Fe} + \underline{3} \text{O}_2 \rightarrow \underline{2} \text{Fe}_2\text{O}_3$

DR

g)  $\underline{1} \text{Al}_2(\text{SO}_4)_3 + \underline{6} \text{LiNO}_3 \rightarrow \underline{2} \text{Al}(\text{NO}_3)_3 + \underline{3} \text{Li}_2(\text{SO}_4)$

2) Name for the insoluble solid that results when two aqueous solutions are mixed

precipitate

3) Ions that do not take place in a reaction are called spectator ions

1pt  
each

Complete the following reactions that will occur based on activity series. (If no reaction write "NR")

4) Magnesium + Aluminum Hydroxide →



2pts  
each

5) Calcium Bromide + Aluminum →



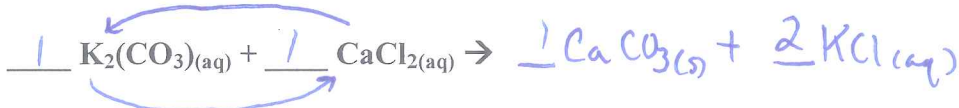
6) Fluorine + Potassium Chloride →



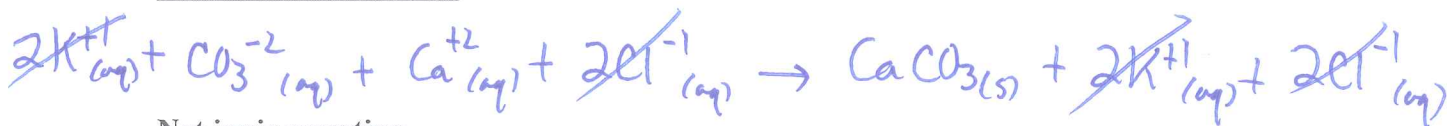
Complete net ionic equation:

7) Will a precipitate form if solutions of Sodium Carbonate and Calcium Chloride are combined? Is so, write the net ionic equation for the rxn.

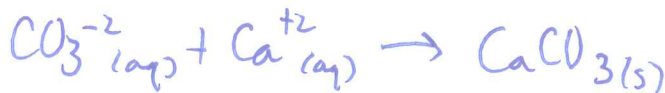
Chemical equation



Overall ionic equation



Net ionic equation

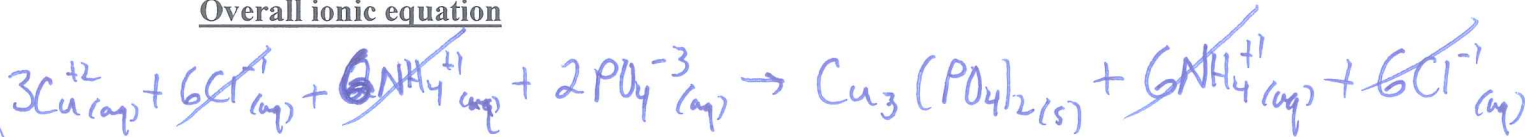


8) Will a precipitate form if solutions of Copper (II) Chloride and Ammonium Phosphate are combined? Is so, write the net ionic equation for the rxn.

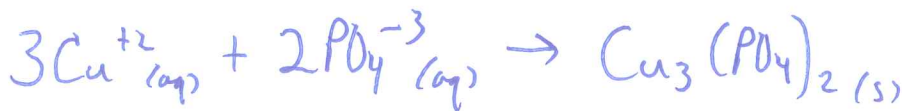
Chemical equation



Overall ionic equation



Net ionic equation



Go Vikings!!!

1pt trying all, 1pt charges on overall & net ionic, 2pt states of matter

[ -6 if nothing ]  
each

for entire question