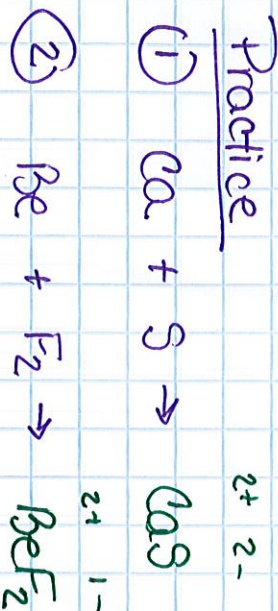
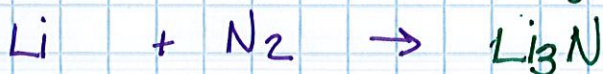
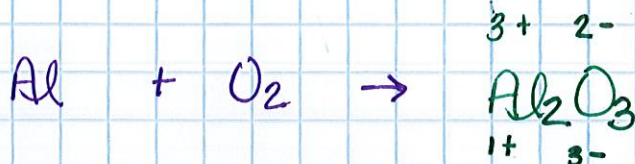
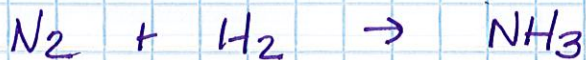
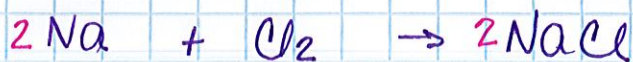


5 Types of Reactions & Predicting Products

(1) Synthesis - "coming together"

general form: $A + B \rightarrow AB$
2 reactants form 1 product

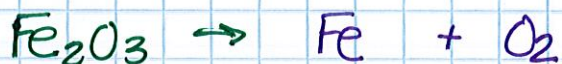
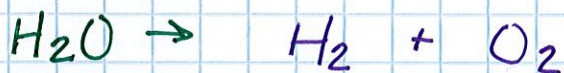
ex)



(2) Decomposition - "breaking apart"

general form: $AB \rightarrow A + B$
1 reactant forming 2 products

ex)



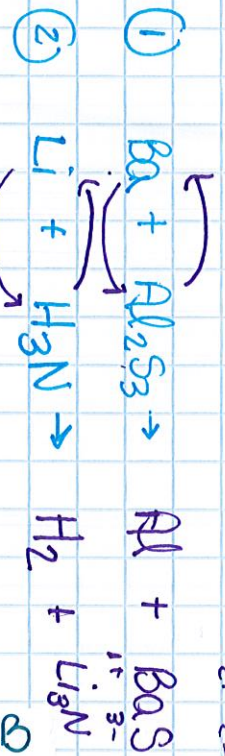
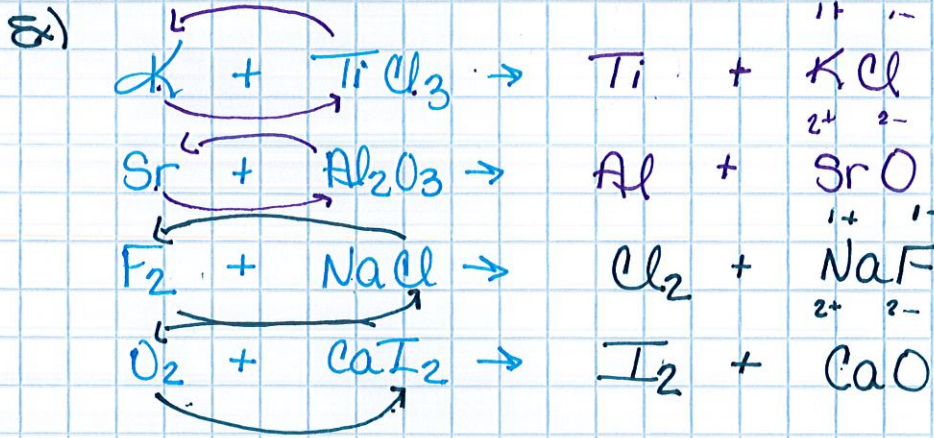
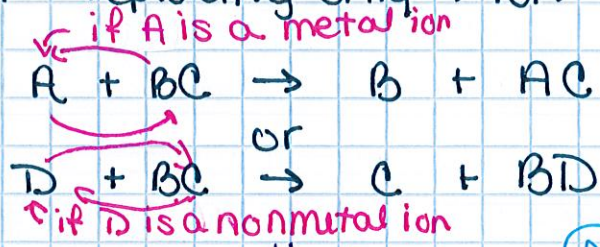
Practice



7 Diatomic Molecules
 $\text{H}_2 \quad \text{O}_2 \quad \text{N}_2 \quad \text{Cl}_2$
 $\text{Br}_2 \quad \text{I}_2 \quad \text{F}_2$

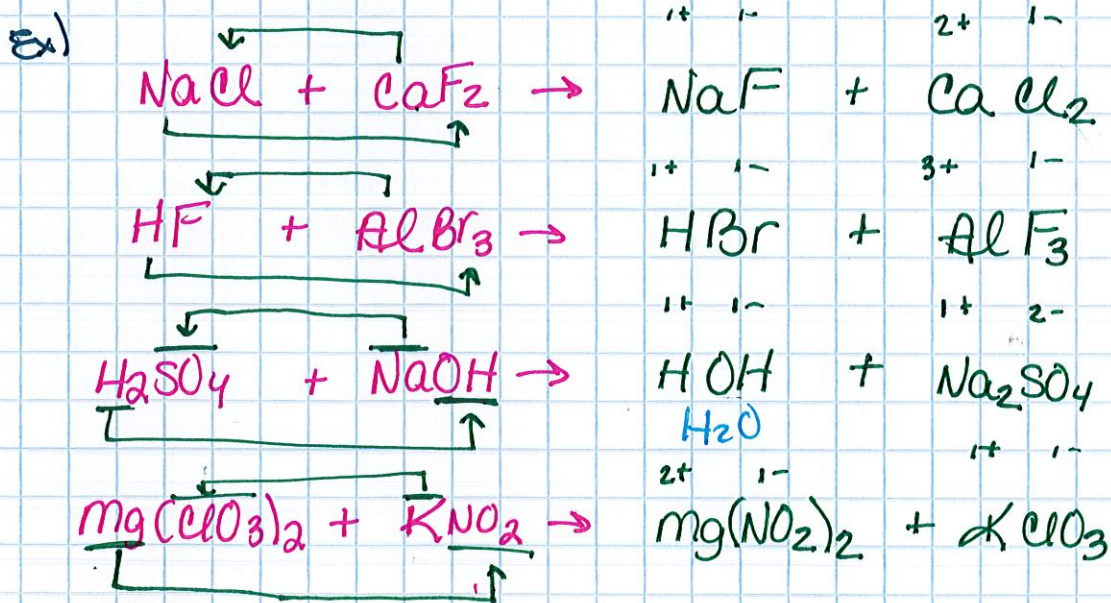
(3) Single- Replacement - replacing only 1 ion

general forms:
 metals replace metals
 nonmetals replace nonmetals

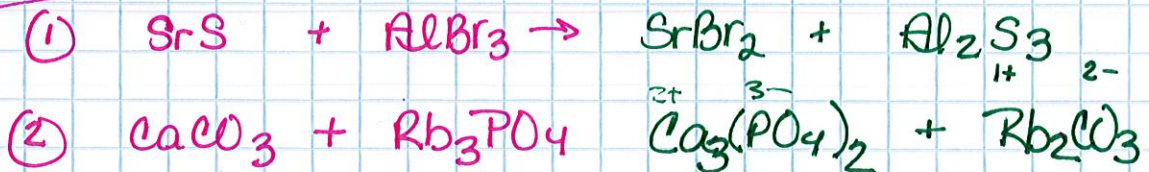


(4) Double- Replacement - "do si do"

general form: $AB + CD \rightarrow AD + CB$
 2 compounds trade ions



Practic



(5) Combustion - hydrocarbon reacts w/ oxygen,
always produces CO_2 & H_2O gases

ex)

