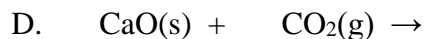
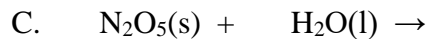
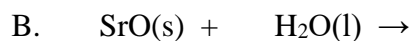
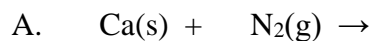
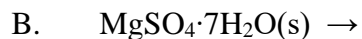

Workshop #4: Reactions

Predict products and balance the following reactions (write total-ionic and net-ionic where requested). If no reaction takes place, write NR for no reaction. Be sure to include phases.

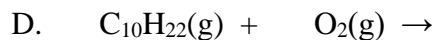
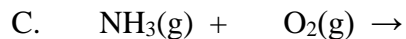
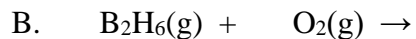
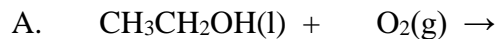
1. Synthesis (Combination or Composition) Reactions: $A + B \rightarrow AB$

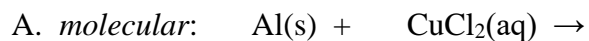
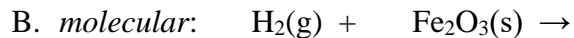
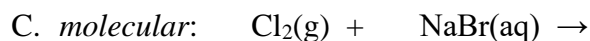
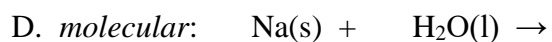
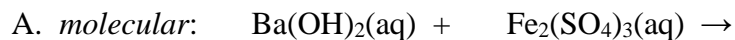
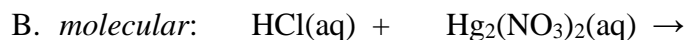


2. Decomposition Reactions: $AB \rightarrow A + B$



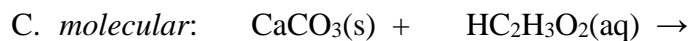
3. Combustion Reactions: *nonmetals* + $\text{O}_2 \rightarrow$ *nonmetal oxides*: H_2O , CO_2 , SO_2 , NO_2



4. Single Replacement (Displacement) Reactions: $C + AB \rightarrow AC + B$ OR $CB + A$ *total-ionic:**net-ionic:**total-ionic:**net-ionic:**total-ionic:**net-ionic:**total-ionic:**net-ionic:*5. Double Replacement (Displacement) Reactions: $AB + CD \rightarrow AD + CB$ *total-ionic:**net-ionic:**total-ionic:**net-ionic:*

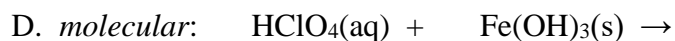
Name: _____

Section: _____



total-ionic:

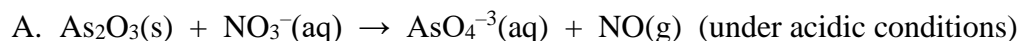
net-ionic:



total-ionic:

net-ionic:

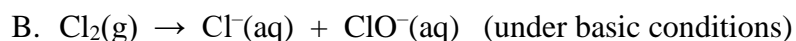
6. Redox (Oxidation-Reduction) Reactions:



Oxidation half reaction:

Reduction half reaction:

Balanced reaction:



Oxidation half reaction:

Reduction half reaction:

Balanced reaction: