

Ch 11 HW Sec Asses 25,26 Her Chm 45,47(a),48(a,b),
 Sec 11.2A 49(a,b),51(a,b)
 obj: Predict products from a chemical reaction.

Predicting Products

- Depends on the Type of Reaction.

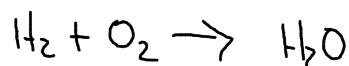
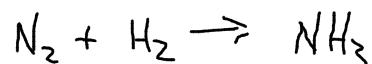
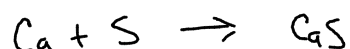
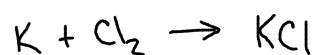
1) Combination Rxn

- Possible Reactants

- 2 elements

- 2 molecular Compounds (diatomic Molecules)

- Products are a combination of both reactants.



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2) Decomposition Rxn

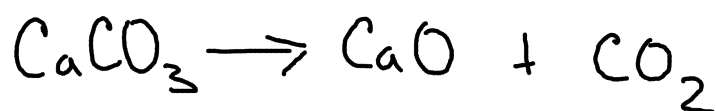
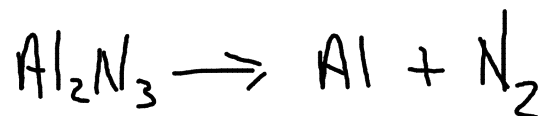
- Possible Reactant

- Binary Compound

- Ternary Compound

- Products

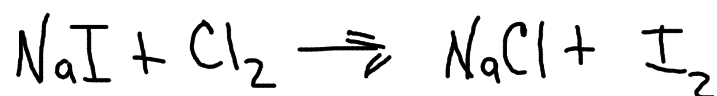
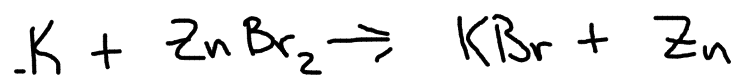
- 2 elements or 2 compounds



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3) Single Replacement

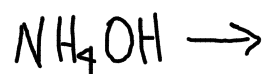
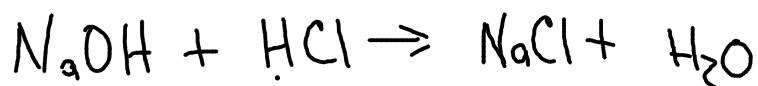
- Possible Reactants
 - An element + an ionic compound.
 - ↳ Metal or Halogen
- Products
 - * Depends on the activity series



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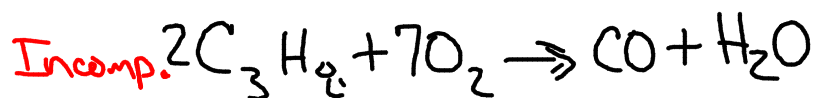
4) Double Replacement

- Possible reactants
 - 2 Ionic Compounds.
- Products
 - Must have a precipitate, molecular compound (H_2O) or a gas.



Dec 1 - 11:45 AM

- 5) Combustion Rxn
- Possible Reactants
 - Fuel and $O_2 \Rightarrow \text{Fuel}(C_xH_y)$
 - Products $CO_2 + H_2O \rightarrow$ Complete
 $CO + H_2O \rightarrow$ Incomplete.



Dec 1 - 11:53 AM