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## **Chemical Reactions Review Topics**

- 1. Nomenclature
  - ionic

- oxy anions
- oxy acids

- covalent
- hydrates

· acid salts

- polyatomic
- binary acids
- 2. Balancing Chemical Equations
- 3. Writing Chemical Equations from Words (include states, conditions)
- 4. Reaction Types
  - a. Synthesis
    - 1. two elements → compound
    - 2. metal + oxygen → metal oxide
    - 3. metal oxide(s) + water → base
    - 4. non-metal + oxygen → non-metal oxide
    - 5. non-metal oxide + water → acid
  - a. Decomposition
    - 1. metal carbonates → metal oxide + carbon dioxide
    - 2. metal hydroxides → metal oxide + water
    - 3. metal nitrates → metal nitrite + oxygen
  - b. Combustion
    - 1. CxHy + oxygen → carbon dioxide + water (complete)
    - 2. CxHy + oxygen → carbon + carbon monoxide + carbon dioxide + water (incomplete)
    - 3. AB + oxygen → common oxides of A and B (see chart in notes)
  - c. Single Displacement
    - 1. activity series
    - 2. halogen series
  - d. Double Displacement
    - 1. precipitation reactions (solubility chart)
    - 2. reactions that produce a gas (check chart may have 3 products)
    - neutralization (acid + base → salt + water)
- 5. Applications