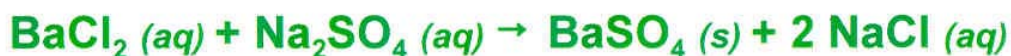


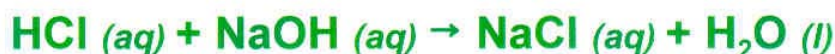
Topic 6K - Representing Redox Reactions

Types of Chemical Reactions

Precipitation (Ion Exchange)



Acid-Base (Proton Transfer)



Lewis Acid-Base (e^- Pair Sharing)



Oxidation-Reduction (e^- Transfer Among Atoms)

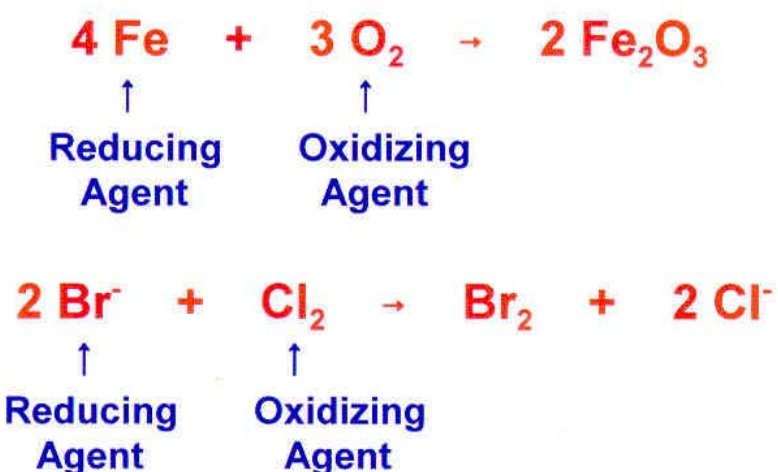


Redox Reactions

Oxidation-Reduction

Oxidation - Loss of e^- 's (Reducing Agent)
Reduction - Gain of e^- 's (Oxidizing Agent)

Occur in Tandem
Examples:



Oxidation Numbers

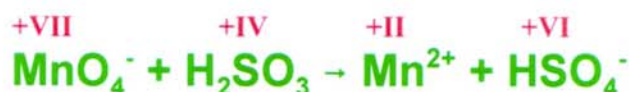
Based on differences in electronegativity (for polyatomic species)
Comparison to formal charge
"Rules" for assignment

Redox Reactions

Concept of half-reactions
Balancing redox reactions

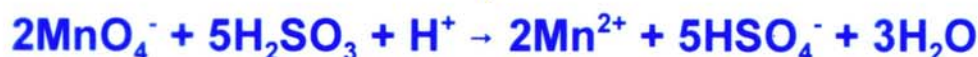
Balancing Redox Reactions

Acidic Solution

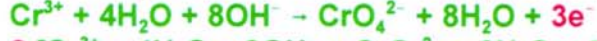
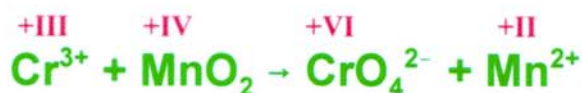


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3



Alkaline Solution



4

2

