

CHEMISTRY

2024-25 Winter Program @Bluekey Prep Apgujeong

INSTRUCTOR

민현진 (Korea University)

COURSE DESCRIPTION

- Session 1
 12/16(월) 12/21(토) & 12/23(월) 12/27(금), 총 10회
- Session 2
 12/23(월) 1/4(토), 총 10회
- ** 12/25, 1/1 휴강

CLASS PLAN

- Day 1 Energy The Natrue of Energy
 - Temperature and Heat
 - Exothermic and Endothermic Processes
 - Thermodaynamics
- Day 2 Energy Measuring Energy Changes
 - Thermochemistry (Enthalpy)
 - Hess's Law
 - Energy as a Driving Force
- Day 3 Solutions Solubility
 - Solution's Composition
 - Solutions Composition : Mass Percent
 - Solutions Composition : Molarity
- Day 4 Solutions Dilution
 - Stoichiometry of Solution Reactions
 - Neutralization Reactions



CHEMISTRY

2024-25 Winter Program @Bluekey Prep Apgujeong

- Day 5 Equilibrium How Chemical Reactions Occur
 - Conditions That Affect Reactions Rates
 - The Equilibrium Condition
 - Chemical Equilibrium : A Dynamic Condition
 - Day 6 Equilibrium The Equilibrium Constant
 - Heterogeneous Equilibria
 - Le Chatelier's Principle
 - Solubility Equilibria
 - Day 7 Acids and Bases Acids and bases
 - Acid Sternth
 - Water as an Acid and a Base
 - Day 8 Acids and Bases The pH Scale
 - Calculating the pH of Strong Acid Solutions
 - Buffered Soultions
 - Day 9 Oxidation

 Reduction Reactions and Electrochemistry
- Oxidation-Reduction Reactions
- Oxidation States
- Balancing Oxidation-Reduction Reaction
- Electrochemistry
- Day 10 Oxidation
 Reduction Reactions and Electrochemistry
- Batteries
- Corrosion
- Electrolysis