

SI Videos

Chemistry II

Video 1

Topics: Clausius-Clapeyron & Phase change diagrams.

Video 2

Topics covered: Intermolecular forces, Solution & Solubility, & Henry's Law.

Video 3

Topics: Concentration terms and Colligative Properties.

Video 4

Topics: Balancing redox reaction using half-reaction method.

Video 5

Topics: Reaction rates, Rate law, Reaction order, and Integrated rate law.

Video 6

Topics: Half-life, collision theory, effects of temperature of reactions, activation energy, and transition states.

Video 7

Topics: ICE Tables/Reaction Tables

Video 8

Topics: Cells and Batteries

Video 9

Topics: Equilibrium state, Equilibrium constant (K_c & K_p), Reaction Quotient (Q_c), and direction of reactions.

Video 10

Topics: Acid & Bases, Auto-Ionization, pH, Bronsted-Lowry Acid-bases, Lewis Acid-bases & Buffers.

Video 11

Topics: Titration Curves & Solubility of Ionic Compounds.

Video 12

Topics: Le Chatelier's Principle and Reaction Conditions.

Video 13

Topics: Thermodynamics and Entropy.

Video 14

Topics: Gibbs free energy & Equilibrium.

Video 15

Topic: Final Exam Review