A general chemistry Libretexts Textmap organized around the textbook

**Chemistry: The Molecular Nature of Matter and Change**

by Martin Silberberg

- 1: Keys to the Study of Chemistry
- 2: The Components of Matter
- 3: Stoichiometry of Formulas and Equation
4: Three Major Classes of Chemical Reactions

5: Gases and the Kinetic-Molecular Theory

6: Thermochemistry - Energy Flow and Chemical Change

7: Quantum Theory and Atomic Structure
8: Electron Configuration and Chemical Periodicity

9: Models of Chemical Bonding

10: The Shapes of Molecules

11: Theories of Covalent Bonding
12: Intermolecular Forces: Liquids, Solids, and Phase Change

13: The Properties of Mixtures: Solutions and Colloids

14: Periodic Patterns in the Main-Group Elements

15: Organic Compounds and the Atomic Properties of Carbon
16: Kinetics: Rates and Mechanisms of Chemical Reactions

\[ Q = 0.245 \]
\[ Q = K = 0.0059 \]
\[ Q = 0.00067 \]

• 17: Equilibrium - The Extent of Chemical Reactions

• 18: Acid-Base Equilibria

• 19: Ionic Equilibria in Aqueous Systems

21: Electrochemistry: Chemical Change and Electrical Work

22: The Elements in Nature and Industry

23: Transition Elements and Their Coordination Compounds