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Your Name:

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### CUSTOMIZE YOUR TEXTBOOK:

1. Please check the box for any **Chapter** that you would like to have deleted from your custom text.

- CHAPTER 1:** Measurements and Atomic Structure
- CHAPTER 2:** The Physical and Chemical Properties of Matter
- CHAPTER 3:** Chemical Bonding and Nomenclature
- CHAPTER 4:** The Mole and Measurement in Chemistry
- CHAPTER 5:** Chemical Reactions
- CHAPTER 6:** Quantitative Relationships in Chemistry
- CHAPTER 7:** Aqueous Solutions
- CHAPTER 8:** Acids, Bases and pH
- CHAPTER 9:** The Gaseous State
- CHAPTER 10:** Principles of Chemical Equilibrium
- CHAPTER 11:** Nuclear Chemistry
- CHAPTER 12:** Introduction to Organic & Biochemistry

2. If you would like the chapters *rearranged*, please explain the ordering you would prefer in the space below:

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3. If you would like *new content* in the text, please explain what you would like, or provide your own content in your reply email.

4. Please check the box for any sub-chapter that you would like to have deleted from within the parent chapter in your custom text.

- 1.1 Why Study Chemistry?
- 1.2 Organization of the Elements: The Periodic Table
- 1.3 Scientific Notation
- 1.4 SI and Metric Units
- 1.5 Unit Conversion with the Metric System
- 1.6 Significant Figures
- 1.7 Atomic Structure and Electron Configuration
  
- 2.1 Pure Substances and Mixtures
- 2.2 The States of Matter
- 2.3 Density, Proportion and Dimensional Analysis
- 2.4 Chemical & Physical Properties and Changes
- 2.5 Conservation of Mass
  
- 3.1 Compounds, Lewis Diagrams & Ionic Bonds
- 3.2 Covalent Bonding
- 3.3 Lewis Representation of Ionic Compounds
- 3.4 Identifying Molecular and Ionic Compounds
- 3.5 Polyatomic Ions
- 3.6 Resonance
- 3.7 Electronegativity and the Polar Covalent Bond
- 3.8 Exceptions to the Octet Rule
- 3.9 Common Valence States & Ionic Compounds
- 3.10 Nomenclature of Ionic Compounds

- 3.11 Nomenclature of Molecular Compounds
- 4.1 Measurement and Scale; the Mole Concept
- 4.2 Molar Mass
- 4.3 Mole-Mass Conversions
- 4.4 Percentage Composition
- 4.5 Empirical and Molecular Formulas
- 5.1 Chemical Changes & Chemical Reactions
- 5.2 Chemical Equations
- 5.3 Balancing Chemical Equations
- 5.4 Classifying Chemical Reactions
- 5.5 Oxidation & Reduction Reactions
- 5.6 Predicting Products from Chemical Reactions
- 5.7 Predicting Solubility Trends
- 5.8 The Energetics of Chemical Reactions
- 6.1 An Introduction to Stoichiometry
- 6.2 Molar Stoichiometry in Chemical Equations
- 6.3 Mass Calculations
- 6.4 Percentage Yield
- 6.5 Limiting Reactants
- 7.1 Dipole Moments and the Properties of Water
- 7.2 Molecular Dipoles
- 7.3 Dissolution of Ionic Compounds
- 7.4 Concentration and Molarity
- 7.5 Solution Stoichiometry
- 7.6 Dilution of Concentrated Solutions
- 8.1 Hydrogen Bonding
- 8.2 Ionization of Acids in Solution
- 8.3 Conjugate Acid-Base Pairs
- 8.4 Acids-Bases Reactions: Neutralization
- 8.5 The Meaning of Neutrality: The Autoprotolysis of Water
- 8.6 pH Calculations

- 8.7 Titrations: Neutralization and Stoichiometry
- 9.1 Gases and Atmospheric Pressure
- 9.2 The Pressure-Volume Relationship: Boyle's Law
- 9.3 The Temperature-Volume Relationship: Charles's Law
- 9.4 The Mole-Volume Relationship: Avogadro's Law
- 9.5 The Ideal Gas Law
- 9.6 Combining Stoichiometry and the Ideal Gas Laws
- 10.1 The Concept of Equilibrium Reactions
- 10.2 The Equilibrium Constant
- 10.3 Calculating Equilibrium Values
- 10.4 Using Molarity in Equilibrium Calculations Le Chatelier's Principle: Stress and Equilibria
- 10.5 Equilibria involving Acids and Bases
- 10.6 The pH of Weak Acid Solutions
- 10.7 Solubility Equilibria
- 11.1 Radioactivity
- 11.2 The Nuclear Equation
- 11.3 Beta Particle Emission
- 11.4 Positron Emission
- 11.5 Radioactive Half-Life
- 11.6 Atomic Fission and Fusion Reactions
- 12.1 Compounds in Organic Chemistry
- 12.2 Alkanes and Alkane Nomenclature
- 12.3 Drawing Organic Structures
- 12.4 Alkenes and Alkynes;  $sp^2$  and  $sp$  Hybridization
- 12.5 Functional Groups in Organic Chemistry
- 12.6 Functional Group Reactions
- 12.7 Even More Functional Group Reactions: Carbonyl Compounds
- 12.8 From Organic Chemistry, to Biochemistry, and beyond...