



Matter and Chemical Change

Unit B



Topic 1 Exploring Matter

- Safety First
- Classifying Matter
- Mixtures of Matter

Topic 2 Changes In Matter

- Can You Ever Be Sure About Changes?
- Properties: Chemical or Physical?

Topic 3 What Are Elements

- Taking Apart Matter
- New Discoveries
- Dalton's Atomic Theory
- Laws, Theories, Models, and Observations
- A Brief History of Atomic Models

Topic 4 Classifying Elements

- Element Symbols
- Different Kinds of Elements
- Chemical Families
- Alkali Metals
- Alkali Earth Metals
- The Noble Gases
- The Halogens

Topic 5 The Periodic Table

- Mendeleev Builds a Table
- Putting the Elements in Order
- Mass Number
- Periodic Table Models

Topic 6 Chemical Compounds

- Understanding Formulas for Compounds
- Molecular Compounds
- How Are Molecular Compounds Named?
- Ionic Compounds
- How Are Ionic Compounds Named?

Topic 7 Chemical Reactions

- Chemical Equations
- Breaking Chemical Bonds

Topic 8 Reaction Rate

- Speeding Up a Reaction With Catalysts
- Slowing Down a Reaction With Inhibitors
- Corrosion
- Preventing Corrosion
- Combustion
- Products of Combustion