

**Physical Science**  
**Reid**

**Chapter 2 Objectives (DNG)**

1. Explain the relationship between matter, atoms, and elements.
2. Distinguish between elements and compounds.
3. Describe molecules and explain how they are formed.
4. Interpret and write some common chemical formulas.
5. Categorize materials as pure substances or mixtures.
6. Distinguish between the physical and chemical properties of matter and give examples of each.
7. Explain physical change and give examples.
8. Explain chemical changes and give examples.
9. Compare and contrast physical and chemical change.
10. Describe how to detect whether a chemical change has occurred.

**Key Vocabulary**

Chemistry

Matter

Element

Atom

Compound

Molecule

Chemical Formula

Pure Substance

Mixture

Melting Point

Boiling Point

Density

Reactivity

Flammability

Physical Change

Chemical Change

**Standards Covered**

SC.912.P.8.2

Distinguish between physical and chemical properties and physical and chemical changes of matter.

SC.912.P.8.7

Interpret formula representations of molecules and compounds in terms of composition and structure.

SC.912.P.10.7

Distinguish between endothermic and exothermic processes.