

Physical Science Chapter 6 Study Guide

- **Atomic Theory of Matter**
 - Every element consists of tiny particles called atoms
 - All atoms of a particular element have the same properties
 - Different elements have different properties because their atoms are different
 - Atoms of different elements can combine in specific ways to form compounds
 - Chemical processes are the result of the rearrangement, combination, or separation of atoms
- **Abbreviation given to each element –chemical symbol—Know the bold print chemical symbols**
- **Parts of an atom**
 - **Nucleus—dense central core composed of protons and neutrons**
 - **Electrons surround the nucleus**
 - **Protons and neutrons are made up of small particles called quarks**
 - **Protons have positive charge and electrons have a negative charge**
- **Isotopes—atoms that are of the same element but have different number of neutrons**
- **Electron shells—regions around the nucleus that represent the energy level of electrons**
- **Ions—atoms with a charge**
 - **Cation—atom with positive charge**
 - **Anion—atom with negative charge**

Chapter 6 Study Guide

N Colangelo



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