

## Physical Science Chapter 6 Study Guide

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- 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

# Physical Science Chapter 6 Wordwise

**D Kirk**



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