

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

Physical Science Chapter 6 Review

BM King



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