

8th Grade Study Guide

Chapter 17

Properties of Atoms & the Periodic Table

STRUCTURE OF THE ATOM Section 1

- Share how chemical symbols work. Identify the elements for: C, O, H, He, Cl, Fe, N, Na.
- Identify the parts of an atom and their characteristics.
- Define quarks.
- Compare and contrast the Bohr and Electron Cloud models of the atom.

MASSES OF ATOMS Section 2

- Define atomic number, and mass number; calculate average atomic mass.
- Define and identify an isotope.

THE PERIODIC TABLE Section 3

- Explain Mendeleev's contribution to the periodic table.
- Identify an atomic number, symbol, and atomic mass of an element using the periodic table.
- Identify the relationship between the electron energy levels and the chemical properties of an element.
- Correctly use electron dot diagrams.
- Identify the characteristics of the atoms of three regions of the periodic table.

