

7th Grade Study Guide

Chapter 2

ATOMS Section 1

- ✓ Define matter and its relationship to atoms.
- ✓ Describe what an element is.
- ✓ Compare and contrast protons, neutrons and electrons.
- ✓ Define and identify an atomic number.
- ✓ Define and identify a mass number.
- ✓ Identify and give examples of isotopes.

COMBINATIONS OF ATOMS Section 2

- ✓ Explain what a compound is and give an example.
- ✓ Compare and contrast the four kinds of bonding.
- ✓ Identify and give an example of an ion.
- ✓ Explain what a mixture is and give an example.
- ✓ Contrast homogeneous and heterogeneous mixtures.
- ✓ Explain and give an example of a solution.

PROPERTIES OF MATTER Section 3

- ✓ Understand the concept of density and be able to apply its formula:
 $D=M/V$.
- ✓ Identify the four states of matter.
- ✓ Explain how matter changes between states.



“Geology to the left of us. Geology to the right of us. Wherever we look, geology. And we can get in on the ground floor.”