

## Chapter 3: Matter and Energy – Study Guide

\*Do not forget about the extra resources available to help you study and prepare for this test!

- Textbook pages 81- 93 (answers to odd questions in the back of the book)
- Mastering Chemistry Study Area: <http://www.pearsonmylabandmastering.com/northamerica/>
- Miss Marnik's Website: <http://www.northallegheny.org/Page/16665>
- Labs, problem packets, and homework assignments

### Section 1 – Classifying Matter: (text pages 57-62)

Need to be able to:

- Define matter, atoms, molecules, element, compound, and mixture.
- Classify matter as and distinguish between solid, liquid, or gas.
- Classify matter as element, compound, or mixture.

### Practice Problems:

1. Match the following terms with the phrases below:

- |  |                          |
|--|--------------------------|
| a. State of matter in which atoms or molecules pack close to each other in fixed locations                             | 1. heterogeneous mixture |
| b. State of matter in which atoms or molecules are packed close together but are free to move around and by each other | 2. homogeneous mixture   |
| c. Substance composed of only one type of atom or molecule   | 3. liquid                |
| d. Matter composed of two or more different types of atoms or molecules combined in variable proportions               | 4. mixture               |
| e. Mixture that has two or more regions with different compositions  | 5. pure substance        |
| f. Mixture that has the same composition throughout  | 6. solid                 |

2. Which of the following can be classified as matter?

- |          |            |                     |           |
|----------|------------|---------------------|-----------|
| a. atoms | c. wind    | e. potential energy | g. carbon |
| b. gas   | d. liquids | f. temperature      | h. light  |

3. Classify each type of matter as a pure substance or a mixture. If it is a pure substance, classify it as an element or a compound. If it is a mixture, classify it as homogeneous or heterogeneous.

- |                                  |               |
|----------------------------------|---------------|
| a. limestone ( $\text{CaCO}_3$ ) | e. Chex mix   |
| b. orange juice with pulp        | f. Table salt |
| c. helium                        | g. Brass      |
| d. Pacific ocean                 | h. oxygen     |

# Matter And Energy Study Guide

**James E. Brady, Fred Senese**



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