

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 (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

Julie R. Frentrup



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