

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

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Matter And Energy Study Guide:

Matter And Energy Study Guide Book Review: Unveiling the Power of Words

In a global driven by information and connectivity, the ability of words has are more evident than ever. They have the capacity to inspire, provoke, and ignite change. Such is the essence of the book **Matter And Energy Study Guide**, a literary masterpiece that delves deep to the significance of words and their affect our lives. Published by a renowned author, this captivating work takes readers on a transformative journey, unraveling the secrets and potential behind every word. In this review, we shall explore the book is key themes, examine its writing style, and analyze its overall impact on readers.

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