

## 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

**L Darling-Hammond**



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web find ar model from signal using the yule walker method solving the yule walker equations we can determine the parameters for an all pole filter that when excited with white noise will produce an ar signal whose statistics match those of the given signal  $x$  once again this is called autoregressive modeling

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web one block i e the block of matlab function since every matlab function has only one input we insert a multiplexer which

all the input signals collects to the one vector fig 1 block diagrams of noise cancellation lms algorithm on left and rls

algorithm on right fig 2 sub scheme of adaptive filters lms on left and rls on right

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extract the desired signal from a noise corrupted signal by filtering out the noise both these algorithms are available with the dsp lmsfilter system object

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