# Chapter 2: Elements are the Building Blocks of Matter Study Guide "Without pressure, the work doesn't get done at all"

William Sarovan (1902-1921)

#### Steps for studying for the Ch 2 test

- Re-sead your notes and use your Cornell-questions to quiz yourself.
- Re-read pages 40 73 of your textbook.
- Be able to define the key vocabulary from the chapter.
- Review your Reading Checks and Work Book, making sure all is complete.
- Be able to answer the questions below. They are a guide for your studying.

metalloids

Complete the online quizzes at http://www.bcscience.com/bc9/

#### Chapter 2 VOCABULARY (pages 40 -73)\*\*Make vocab cards and quiz yourself if you need to

| elements   |   | atomic       |   | period        | electron      |
|------------|---|--------------|---|---------------|---------------|
| compounds  |   | number       | • | chemical      | shells        |
| chemical   | * | atomic mass  |   | family        | valence       |
| symbol     |   | atomic mass  | • | alkali metals | electrons     |
| chemical   |   | umit         | • | allcaline     | valence shell |
| properties | • | ion charge   |   | earth metals  | noble gas     |
| metals     |   | ion          | • | halogens      | stability     |
| non-metals |   | multiple ion | • | noble gases   |               |
| periodic   |   | charge       |   | Bohr model    |               |

of the atom.

#### Section 2.1: Elements

taib le

- How many elements are there?
- Give 2 examples of elements at each of the following states:

a) solid b) liquid c) gas

- 3. Most of the elements names are derived from what languages?
- Be familiar with the physical and chemical properties, some uses, and interesting information of the following elements.

a) Hydrogen e) Chlorine
b) Iron f) Mercury
c) Oxygen g) Silver
d) Sodium h) Silicon

5. Complete the Section 2.1 Quiz online at http://www.bcscience.com/bc9/

#### Section 2.2: The Periodic Table and Chemical Properties

- a) Who is Dmitn Mendeleev?
  - b) Describe his early work on organizing the elements.
  - c) Describe Mendeleev's special insight in the organization of elements.
- What does the Periodic Table show for each element?
- 3. a). Differentiate atomic number from atomic mass and choose a specific element for example.
  - b). Describe the pattern of each on the Penodic Table.
- Differentiate atoms from ions.
- a) What are the 2 types of ions?

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Marcel A. Müller

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