

Chapter 4 Quiz Study List

1. Know the following scientists and their contributions to the model of the atom.
 - a. Democritus (word atomos)
 - b. Dalton (first to provide evidence and his 5 ideas about the atom)
 - c. Thomson (experiment, discovery, and model)
 - d. Rutherford (experiment, discovery, and model)
2. Vocabulary you should know
 - a. Subatomic particles (names, charges, and location)
 - b. Atomic number and what it describes
 - c. Atomic mass/average atomic mass
 - d. Mass number and how it is different than atomic mass
 - e. Isotope
 - f. Ion
 - g. Cation and how it is formed
 - h. Anion and how it is formed
 - i. Isotopic notation vs mass notation
 - j. Percent abundance
3. Know how to..
 - a. Determine the number of protons, neutrons, electrons, mass number, in a neutral atom
 - b. Determine the number of protons, neutrons, mass number, electrons in a charged atom
 - c. Use isotopic notation and mass notation to determine all of the things above
 - d. Calculate average atomic mass (know the equation)
 - e. Know how to identify the isotope that is the most abundant by looking at the average atomic mass on the periodic table