

Honors Chemistry Study Guide CH. 2

Atoms, Molecules and Ions

* **Completely READ on your own sections 2.1, 2.2, and 2.3 Learn any and all vocabulary that is unfamiliar to you. Take notes on concepts for which you have a question. ASK about it in class ASAP.**

1. Throughout the chapter's sections, as you read know each of the following individuals and their contribution to chemistry. Georg Bauer – Paracelsus– Robert Boyle – Georg Stahl – Joseph Priestly – Antoine Lavoisier – Joseph Proust – John Dalton - Joseph Gay-Lussac – Amadeo Avogadro – J.J. Thomson – Robert Millikan – Jons Berzelius - Henri Becquerel – Ernest Rutherford – Write a complete, coherent summary of the contributions of each of these individuals to the progress of chemistry.

2. Read Sec. 2.3 Dalton's Atomic Theory: Learn all the 4 major points. Learn all new definitions

3. Read section 2.4 Note the progression of the models of the atom and their descriptions. I will carefully go over this section with you.

4. Read sec 2.5 Modern View of Atoms and their structure. Isotopes

5. Read sec. 2.6 and 2.7 Molecules Elements and an introduction to the periodic table.

6. **Read sec 2.8** This is an extremely important section. Learn the rules and practice A) NAMING Compounds and B) WRITING FORMULAS of compounds – There are many practice problems in the handouts I have given you. Use them! And your exercise book. You want to be an "expert" at these two tasks. Do as much practice as you can here - at least 60 compounds for each process. **Learn the ions in tables 2.3 and 2.4** on pages 62-63 and 2.5 on page 67 and 2.6 on page 2.6 Learn these 10 a day so in a weeks you will know them all **There will be a major QUIZ on ions.**

7. **Learn the acids in the tables on pages 71-72**

CH 2 HOMEWORK

Be certain to always check the hand out I gave you for the acceptable format for every assignment and lab write up (they are not identical) - 1 point is deducted for incorrect headings on any and all assignments or labs

1. **NB Do at least 4 -5 of these EVERY DAY:** Pages 74-79 #s 11, 12, 19, 20, 21, 22, 23, 24, 27, 31, 33, 35-39, 41, 42, 53, 54, 56, 57, 58

Exercises: 31, 35, 37, 39, 41, 43, 45, 47,49, 51, 53, 59, 61, 63, 65, 67, 69, 71

2. **QUIZZES:** After each section

3. **TO BE HANDED IN: DUE DATES AT THE BOARD WRITE THESE IN YOUR ASSIGNMENT BOOK.**

If you are NOT in school on the due date try and turn the assignment in early – otherwise, come and see me immediately upon your return to school in the am or right after school (not at the beginning of the period. We need more time to set up possible tutoring and determine your makeup date.) IF you ARE in school but miss my class for an excused reason, the assignment is due. You, should turn it in to me BEFORE school begins that day. If you come in during the day and have missed class you must turn the assignment is ASAP after your arrival (between classes if necessary.) NO late assignments - a zero score will be recorded. This is the most detrimental thing you can do to your grade. Make it a priority to get your work in on the due date or earlier.

OVER FOR MORE

NEVER lay any paper you are turning in on my desk. Make certain it comes to me in my hand. A lost or “late” paper you lay on my desk will receive a zero grade.

Exercises Pages 74-79:

Assignment #1: 44, 46, 48, 50 B, WP, CF

Assignment #2: 60, 62, 64, 66, 68 B, WP, CF

Assignment #3: 70, 72 B, WP, CF

4. Test Ch 2 B, WP, CF

LAB #4 Density Part A: USE a regularly shaped solid NOT an irregular shape (make your data table to reflect the FORMULAS you will use to calculate the density of the regular shaped object.) Adjust ALL sizes for equipment based on what you have in your lab drawers. Part B: USE water and alcohol for the two liquids. There will be NO unknown liquid here. LOOK UP the accepted values for the densities and then calculate a percent error in your experiment. SKIP PART C