

Honors Chemistry Study Guide CH. 1

Introduction To Chemistry

- * **Completely READ on your own sections 1.1 and 1.2 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.**
LEARN THE ACCEPTABLE HEADING FOR ASSIGNMENTS

1. MEMORIZE 10 element names and symbols each day for the next week – weekends included. You'll know them all! Note the “odd” ones – there will then be a 60 point quiz given after a week.
2. Read sec. 1.3 and learn information in: Table 1.1 on page 8 and 1.2 on page 9 and figure 1.6 on page 9.
3. Read section 1.4 Uncertainty – Precision – Accuracy – Scale reading - Learn the equipment on page 11 in figures 1.7 and 1.8 – practice scale reading with the first three pieces of equipment in 1.7 and the balance in 1.8 **The room is available to you from 7:15 to 3:15-3:30 daily.** Do this on your own/maybe in class, record your values in your notebook, be sure to read to the greatest accuracy possible for each piece of equipment, **DO** at least 4 different measurements with each piece of equipment. Be certain to include appropriate units for each reading. Be finished within two days of it being assigned – see due date on the board or your class WEB page, or call a friend if you miss class.)

| Equipment | Reading 1 | Reading 2 | Reading 3 | Reading 4 |
|--------------------|-----------|-----------|-----------|-----------|
| graduated cylinder | | | | |
| pipet | | | | |
| buret | | | | |
| analytical balance | | | | |

4. Read sec 1.5 Significant Figures and their use in science calculations using measurements vs. “perfect” numbers. **Learn the rules pages 14-16 PLUS the important RULE OF FIVE.**
5. Read sec. 1.6 Be able to convert any units into different comparable units of the same property. **SHOW ALL WORK ALL YEAR LONG**
6. Read sec 1.7 Learn the three temperature scales and be able to convert between each
7. Read sec. 1.8 Density determinations (from experimental data you collect) and density calculations (solving story problems)
8. Read sec 1.9 on your own and learn all new vocabulary and be able to write it out from memory.

CH 1 HOMEWORK

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. **IN YOUR NOTEBOOK NB:** ORGANIZED AND CLEARLY LABELED FOR NOTEBOOK CHECKS.
Page 32-38 QUESTIONS: 16, 18, 20, DO AT LEAST TWO of each of the blue EXERCISES problems in each section for practice and understanding - **these will be on your quizzes and tests.**
2. **QUIZZES QZ:** Element quiz in one week - Quizzes on each of sections 1.5 - 1.6 - 1.7 - 1.8 as we finish the section

- OVER -

3. TO BE HANDED IN HI: 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 A.M. 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.

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.

PAGES 32-35

NB: Questions 18 - 20 Exercises Pages 32-38:

HI: Assignment #1: 26, 28, 30, 32, 34, 36 due date on Board, WEB Page, or Call a friend = B,WP,CF

Assignment #2: 38, 40, 42, 44, 46, 48, 50 B, WP, CF

Assignment #3: 54, 56, 58, 60, 62 B,WP,CF

4. Test Ch 1 B,WP,CF

5. LABS:

#2: From Your Lab Manual: Use of equipment and lab techniques of measurement

#2: **I will hand out the lab** for Recognizing that a chemical reaction has occurred. You write it up like all labs.