

HONORS CHEM 1st SEMESTER EXAM STUDY GUIDE FALL 2010

STRATEGY: Start by reading through your notes to refresh your memory on these topics. Then, use this review sheet as a starting point to identify the areas on which you need to spend more study time. For those areas, go back to homework assignments, quizzes, and reviews to practice more problems. I would also recommend going through all of your tests since these questions are only samples and do not include specific examples of how vocabulary and other conceptual information might appear in a multiple-choice or other format. Remember you can access notes and reviews on my website.

IMPORTANT INFORMATION:

- This must be handed in BEFORE taking your final exam.
- If entirely complete, 5 points will be added to your exam grade
- All work must be shown in DETAIL on lined paper

Introduction to Chemistry – Chapter 1

1. Identify safe/unsafe lab practices.
2. List pieces and uses of lab equipment.
3. List the requirements for tables and graphs.
4. What is plotted on the x-axis and on the y-axis?
5. Make a density graph.
6. What is water displacement?

Matter and Change – Chapter 2

7. Classify the following substances as *solid*, *liquid*, *gas*, or *plasma* based on their properties.
 - a. flexible volume, high KE, particles can disperse freely.
 - b. flexible volume, very high KE, particles are charged.
 - c. fixed volume, very low KE, orderly particles.
 - d. fixed volume, low KE, particles can move past each other.
8. Classify the following as element, compound, heterogeneous mixture, or solution.
 - a. graphite (carbon)
 - b. grape juice
 - c. table salt (NaCl)
 - d. pepper
9. Classify the following as *chemical* or *physical changes*.
 - a. cutting wire
 - b. ripening tomato
 - c. apple slices turning brown
 - d. compressing a gas
10. Classify the following properties as *physical* or *chemical*.
 - a. melts at 68.0°C
 - b. corrosive
 - c. reacts violently with water
 - d. decomposes in air
 - e. magnetic
11. Classify the following properties as *intensive* or *extensive*.
 - a. melting point
 - b. volume
 - c. mass
 - d. reactivity
 - e. density

VOCAB: kinetic molecular theory

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United States Air Force Academy

A red circular graphic with a gradient, appearing as a partial circle or a stylized arrow pointing to the right, located to the right of the United States Air Force Academy text.

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