

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

Honors Chemistry Final Exam Study Guide

Mary Millhollon, Richard H. Langley



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Student-Centered Learning by Design Jacquelyn Whiting, 2021-03-15 Current research is pushing schools to adopt more student centered approaches to the classroom experience and educators librarians and classroom teachers alike are being challenged to revise their curricula and instruction to be student centered personalized and differentiated This book empowers librarians teachers and administrators to be empathic problem solvers and decision makers By reframing the challenges that members of a learning community face as opportunities to better meet teaching and learning needs readers will find that adoption of a mindset focused on users namely design thinking elevates and creates opportunities for innovating pedagogy Moreover it can enhance school culture as well as build channels of communication among various stakeholders in schools and districts When educators of any subject or discipline apply design thinking skills to their curriculum implementation authentic student centered learning experiences become the core of the learning experience The case studies shared in this book provide examples of student centered approaches being used in elementary middle and high schools so that readers have many models on which to base their work and from which to build confidence in shifting their pedagogy to keep the student at the center of teaching and learning decisions

Honors Medical Students: Becoming America's Best and Brightest, **Newly Hired Teachers of Science** Julie A. Luft, Shannon L. Dubois, 2015-12-09

Supporting newly hired science teachers has taken on an increased importance in our schools This book shares the most current information about the status of newly hired science teachers different ways in which to support newly hired science teachers and different research approaches that can provide new information about this group of teachers Chapters in the book are written by those who study the status of beginning science teachers mentor new teachers develop induction programs and research the development of new science teachers Newly Hired Teachers of Science is for administrators who have new science teachers in their schools and districts professionals who create science teacher induction programs mentors who work closely with new science teachers educational researchers interested in studying new science teachers and even new science teachers This is a comprehensive discussion about new science teachers that will be a guiding document for years to come *Carolina Science and Math* Carolina Biological Supply Company, 2003 [Resources in Education](#), 1998

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Langley, 2023-07-31 AP Teachers 1 Choice Ready to succeed in your AP course and ace your exam Our 5 Steps to a 5 guides explain the tough stuff offer tons of practice and explanations and help you make the most efficient use of your study time 5 Steps to a 5 AP Chemistry 2024 Elite Student Edition is more than a review guide it s a system that has helped thousands of students walk into test day feeling prepared and confident Everything You Need for a 5 3 full length practice tests that align with the latest College Board requirements Hundreds of practice exercises with answer explanations Comprehensive overview of all test topics Proven strategies from seasoned AP educators Why the Elite Edition 200 pages of additional AP

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