

### Final Exam Study Guide (General Chemistry I)

- Chemistry - the study of matter and the changes that matter undergoes
- Matter - anything that has mass and takes up space
  - Three states of matter: solid, liquid, and gas (plasma is a gas)

	Proximity of Particles	Energetics	Size/Shape
Solid	Closely packed and in direct contact with each other	Have very little energy of motion (slow)	Fixed shape and fixed volume
Liquid	In indirect contact with each other; usually about a particles distance apart (bounce off each other)	Have an intermediate amount energy of motion (medium)	Does not have a fixed shape; has a fixed volume
Gas	Particles are very far apart	Have a large amount of energy of motion (fast)	No fixed shape or volume

- **PARTICLES ARE ALWAYS MOVING!**
- "Can you undo it?" (Page 12)
  - Physical Changes - changes physical appearance but not its composition
    - Ex. Melting, evaporation, freezing, etc.
  - Chemical Changes - changes in chemical composition of matter (chemical reaction)
    - Ex. Baking soda and vinegar, burning, mixing, etc.
  - Physical Properties - characteristics that can be described by observing the matter; no change in composition is required to detect a physical property
    - Ex. Color, odor, density, etc.
  - Chemical Properties - a change in composition is required to detect a chemical property
    - Ex. Flammability
- Accuracy Versus Precision:
  - In every measurement, there is some degree of uncertainty.
  - **NUMBERS WITHOUT UNITS ARE MEANINGLESS IN MEASUREMENT!**
  - Accuracy - the agreement of a measurement with a known or accepted value (correctness)
  - Precision - the agreement of a measurement with other measurements in a given set of measurements (reproducibility/repeatability)
  - You can have accuracy without precision, and precision without accuracy.
  - **WE ARE ONLY AS CERTAIN AS OUR LEAST CERTAIN NUMBER!**
    - 254 can mean 253.5 to 254.4
    - 254.0 can mean 253.95 to 254.04
    - 254.00 can mean 253.950 to 254.004
    - 254.000 can mean 253.9500 to 254.0004
- Density - the mathematical relationship of mass to volume

# Grade 12 Chemistry Final Exam Study Guide

**A. A. Frempong**



## **Grade 12 Chemistry Final Exam Study Guide:**

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discipline This section is organized so as to parallel the order of topics found in most introductory psychology textbooks Intended for academicians who teach the introductory psychology course and or oversee grad assistants who teach the course all royalties of the book go directly to the Society for the Teaching of Psychology to promote its activities to further improve the teaching of psychology **Resources in Education** ,1998 *X-kit Literature Series: FET Maru* Colleen Traviss-Lea,2005 *Carolina Science and Math* Carolina Biological Supply Company,2003 **Study Guide and Procedure Checklist Manual for Kinn's The Medical Assistant - E-Book** Brigitte Niedzwiecki,Julie Pepper,P. Ann Weaver,2022-06-18 Designed to support the trusted content in Kinn s The Medical Assistant 14th Edition this study guide is the essential review and practice companion to reinforce key concepts encourage critical thinking and ensure that you learn to master and apply key medical assisting content This robust companion guide offers a wide range of exercises to reinforce your understanding of common administrative and clinical skills including new certification preparation questions that offer additional practice for certification exams a review of medical terminology and anatomy and need to know workplace applications Trusted for more than 60 years as a key part of the student journey from classroom to career it also features competency checklists to clearly assess your performance and progression from day one until you land your first job as a Medical Assistant Comprehensive coverage of all administrative and clinical procedures is built from Medical Assisting accreditation standards and competencies Hundreds of practice questions multiple choice true false fill in the blank help students with essential content review and practice Skills practice workplace applications and online activities promote critical thinking before students enter practice Procedure checklists help students track their performance of every procedure included in the textbook Work products allows students to provide documentation of skills mastery for classroom or job searching requirements Chapter by chapter correlation with the textbook allows students to easily follow core textbook competencies Perforated pages for on the go study or turn in assignments and evaluations NEW Chapter reviews medical terminology anatomy and physiology and pathology to reinforce key foundational knowledge NEW Expanded content on medical office accounts collections banking and practice management prepares students to step into the role of a Medical Assistant NEW Certification Preparation questions help students focus on certification from the beginning of their studies NEW Streamlined presentation combines chapters and focuses on need to know content [Learning Science Through Computer Games and Simulations](#) National Research Council,Division of Behavioral and Social Sciences and Education,Board on Science Education,Committee on Science Learning: Computer Games, Simulations, and Education,2011-05-12 At a time when scientific and technological competence is vital to the nation s future the weak performance of U S students in science reflects the uneven quality of current science education Although young children come to school with innate curiosity and intuitive ideas about the world around them science classes rarely tap this potential Many experts have called for a new approach to science education based on recent and ongoing research on teaching and learning In this approach simulations

and games could play a significant role by addressing many goals and mechanisms for learning science the motivation to learn science conceptual understanding science process skills understanding of the nature of science scientific discourse and argumentation and identification with science and science learning To explore this potential Learning Science Computer Games Simulations and Education reviews the available research on learning science through interaction with digital simulations and games It considers the potential of digital games and simulations to contribute to learning science in schools in informal out of school settings and everyday life The book also identifies the areas in which more research and research based development is needed to fully capitalize on this potential Learning Science will guide academic researchers developers publishers and entrepreneurs from the digital simulation and gaming community and education practitioners and policy makers toward the formation of research and development partnerships that will facilitate rich intellectual collaboration Industry government agencies and foundations will play a significant role through start up and ongoing support to ensure that digital games and simulations will not only excite and entertain but also motivate and educate

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