

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

Chemistry 163 Final Exam Study Guide

M Carnoy



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Hazmat Chemistry Study Guide (Second Edition) Jill Meryl Levy, 2011 **ASAP Chemistry: A Quick-Review Study Guide for the AP Exam** The Princeton Review, 2019-02-12 Looking for sample exams practice questions and test taking strategies Check out our extended in depth AP chem prep guide **Cracking the AP Chemistry Exam LIKE CLASS NOTES ONLY BETTER** The Princeton Review s ASAP Chemistry is designed to help you zero in on just the information you need to know to successfully grapple with the AP test No questions no drills just review Advanced Placement exams require students to have a firm grasp of content you can t bluff or even logic your way to a 5 Like a set of class notes borrowed from the smartest student in your grade this book gives you exactly that No tricks or crazy stratagems no sample essays or practice sets Just the facts presented with lots of helpful visuals Inside ASAP Chemistry you ll find Essential concepts terms and functions for AP Chem all explained clearly concisely Diagrams charts and graphs for quick visual reference A three pass icon system designed to help you prioritize learning what you MUST SHOULD and COULD know in the time you have available Ask Yourself questions to help identify areas where you might need extra attention A resource that s perfect for last minute exam prep and for daily class work Topics covered in ASAP Chemistry include Atomic structure Covalent bonding intermolecular forces Thermochemistry Acids bases and more **The Nobel Prizes 2019** Karl Grandin, 2022-03-07 The Nobel Prizes is the official yearbook of the Nobel Foundation This edition provides extensive information about the 2019 laureates their Nobel Prize lectures and their autobiographies as well as presentation speeches and background about the Nobel festivities Published on behalf of the Nobel Foundation **Chemistry for the IB Diploma Exam Preparation Guide** Steve Owen, Chris Martin, 2015-06-25 Chemistry for the IB Diploma Second edition covers in full the requirements of the IB syllabus for Chemistry for first examination in 2016 **A Reader's Guide to Contemporary Literature** William Swan Sonnenschein, 1896 **Resources in Education** , 1996-07 **General Forensic Science** Archana Singh, 2024-05-03 Welcome to General Forensic Science A Comprehensive Book meticulously curated to be your ultimate exam preparation companion Crafted with precision by seasoned practitioner advocate and forensic book writer Archana Singh this guide is tailored to cover the essentials of basic forensic science Designed with the exam taker in mind this book encompasses a diverse range of content offering a comprehensive overview of various forensic disciplines From fundamental principles to advanced techniques each chapter is meticulously structured to aid in your exam preparation journey Whether you re a student venturing into the world of forensic science or a seasoned professional seeking to brush up on the basics this book is your definitive resource for mastering the essentials of forensic science Additionally rest assured that this book has been meticulously prepared according to the syllabus of FACT FACT Plus Section A ensuring alignment with your exam preparation needs **Guide to American Graduate Schools** , 1990 **AQA Psychology** Cara Flanagan, 2008-07 The Revise AS study guides are written by examiners and contain in depth course coverage of the key information plus hints tips and

guidance End of unit sample questions and model answers provide essential practice to improve students exam technique

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