

CHEM 121: Final Exam Study Guide

Chapter 1

- Know the Scientific method
- Know the definitions for hypothesis, scientific law, and scientific theory.

Chapter 2

- Length, mass, weight, volume
 - Know $1\text{ cm}^3=1\text{ mL}$ and $1\text{ dm}^3=1\text{ L}$
- Significant figures and Scientific notation
 - Rounding, in addition or subtraction, in multiplication or division
 - Keep as many sig figs until final answer
- Scientific notation
- Metric system
 - Know the metric prefixes: kilo (k), deci (d), centi (c), milli (m), and micro (μ)
 - Be able to perform metric-metric conversions using these prefixes.
- Use the metric-English conversions provided ($1\text{ in.}=2.54\text{ cm}$; $1\text{ lb}=453.6\text{ g}$; $1\text{ qt}=946\text{ mL}$)
- Volume by calculation
 - $V_{\text{rectangular solid}} = \text{length} \times \text{width} \times \text{thickness}$
- Volume by displacement
- Density: $d = \frac{m}{V}$
 - Calculate density, mass, or volume
 - Identify what items sink or float given densities of liquids and solids.
- Temperature
 - Know the formulas for converting "F-to-"C or "C-to-"F and K-to-"C or "C-to-K
- Percentage: ratio of parts per 100 parts
 - Given amount of part and whole, calculate %
 - Use a given % to solve for part or whole

Chapter 3

- Know that matter is studied at the macroscopic, microscopic, particulate (molecular) levels
- Physical states of matter
 - Determine physical state of substances (solids, liquids, gases) given descriptions of volume, shape, particles moving, etc.
- Classify properties and changes as physical or chemical
 - Know terms for changes of state:
 - Melting, freezing, vaporizing, condensation, sublimation, deposition
- Classification of matter
 - Given examples, determine which are elements, compounds, or mixtures
 - Given molecular-level images, determine which are elements, compounds, or mixtures and solids, liquids, or gases
 - Distinguish between homogeneous and heterogeneous mixtures
- Chemical reaction:
 - reactants: starting materials
 - products: substances produced in reaction

Chemistry 121 Final Exam Study Guide

Elizabeth Kean, Catherine Middlecamp



Chemistry 121 Final Exam Study Guide:

Catalog Southwestern Indian Polytechnic Institute, The Success Manual for General Chemistry Elizabeth Kean, Catherine Middlecamp, 1986 *Chemistry for the IB Diploma* Geoff Neuss, 2001 This concise guide provides the content needed for the Chemistry IB diploma at both Standard and Higher Level It follows the structure of the IB Programme exactly and includes all the options Each topic is presented on its own page for clarity Higher Level material is clearly indicated and there are plenty of practice questions The text is written with an awareness that English might not be the reader's first language *Guide to American Graduate Schools*, 1982 **Florida Schools**, 1961 **Florida School Bulletin**, 1961 **How to Survive (and Even Excel In) General Chemistry** Elizabeth Kean, Catherine Middlecamp, 1994 A different kind of book about chemistry which teaches readers the process of learning chemistry not the topic itself Proving a valuable supplement to any introductory text this guide offers inside information to help make chemistry less stressful even enjoyable Includes exercises and sections for self assessment **El-Hi Textbooks and Serials in Print, 1996** R R Bowker Publishing, Bowker, 1996-02 **Cities and Their Vital Systems** Advisory Committee on Technology and Society, 1989 Cities and Their Vital Systems asks basic questions about the longevity utility and nature of urban infrastructures analyzes how they grow interact and change and asks how when and at what cost they should be replaced Among the topics discussed are problems arising from increasing air travel and airport congestion the adequacy of water supplies and waste treatment the impact of new technologies on construction urban real estate values and the field of telematics the combination of computers and telecommunications that makes money machines and national newspapers possible The Chemical News : and Journal of Physical Science, 1896 **The Open Shelf**, 1919 *Industrial Arts Index*, 1922 **Chemical News and Journal of Industrial Science**, 1896 *Chemical News and Journal of Physical Science*, 1896 The Chemical Trade Journal and Oil, Paint and Colour Review, 1892 **New Technical Books**, 1926 *Chemist and Druggist*, 1913 **Reference Catalogue of Current Literature**, 1906 *The Lancet*, 1883 Teacher of English Arco Publishing Company, 1957

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