

HOLT MODERN CHEMISTRY -- CHAPTER 2 REVIEW

The following pages contain the bulk (but not all) of the information for the chapter 2 test. Focus on this content, but make sure to review class notes, activities, handouts, questions, etc. If you study this document and **NOTHING** else, you should at least be able to **PASS** the test. ***** Test items will be recall, examples, and/or application of this content. *****

OUTCOMES

- 2.1: Describe the scientific method process. *(T & R)*
- 2.2: Measure length, volume, mass, and time using metric units. ($1 \text{ mL} = 1 \text{ cm}^3$ & $1 \text{ L} = 1 \text{ dm}^3$) *(T & R)*
- 2.2: Use volume and mass to determine density; compare relative densities of solids, liquids, gases; compare relative densities of pure liquids and solutions. *(F & PK)*
- 2.2: Use density to identify substances in activities involving collection of data and precision and accuracy in measurements. *(F & PK)*
- 2.3: Distinguish between precision and accuracy. *(T & R)*
- 2.3: Determine and perform calculations using significant figures. *(F & PK)*
- 2.3: Convert from numbers to scientific notation and reverse. *(F & PK)*

2.1 SCIENTIFIC METHOD

- **Vocabulary**
 - **scientific method** -- a series of steps followed to solve problems, including collecting data, formulating a hypothesis, testing the hypothesis, and stating conclusions
 - **system** -- a set of particles or interacting components considered to be a distinct physical entity for the purpose of study
 - **hypothesis** -- an explanation that is based on prior scientific research or observations and that can be tested
 - **model** -- a pattern, plan, representation, or description designed to show the structure or workings of an object, system, or concept
 - **theory** -- an explanation for some phenomenon that is based on observation, experimentation, and reasoning
- **Chapter Highlights**
 - The scientific method is a logical approach to solving problems that lend themselves to investigation.
 - A hypothesis is a testable statement that serves as the basis for predictions and further experiments. It is usually written as an if/then statement.
 - A theory is a broad generalization that explains a body of known facts or phenomena.
 - Communication is a very important aspect of all parts of the scientific method, including successful and/or unsuccessful results.

2.2 UNITS OF MEASUREMENT

- **Vocabulary**
 - **quantity** -- something that has magnitude, size, or amount
 - **SI** -- Le Systeme International d'Unites, or the International System of Units, which is the measurement system that is accepted worldwide
 - **weight** -- a measure of the gravitational force exerted on an object; its value can change with the location of the object in the universe
 - **derived unit** -- a unit of measure that is a combination of other measurements
 - **volume** -- a measure of the size of a body or region in three-dimensional space
 - **density** -- the ratio of the mass of a substance to the volume of the substance; often expressed as grams per cubic centimeter for solids and liquids and as grams per liter for gases
 - **conversion factor** -- a ratio that is derived from the equality of two different units and that can be used to convert from one unit to the other
 - **dimensional analysis** -- a mathematical technique for studying dimensions of physical quantities

Holt Chemistry Chapter Test

JR Anderson



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Holt Chemistry Ralph Thomas Myers,2004 **Holt Chemistry File** ,1998 This reference is a must for students who need extra help reteaching or extra practice The guide moves students through the same concepts as the text but at a slower pace More descriptive detail along with visual algorithms provides a more structured approach Each chapter closes with a large bank of practice problems Book jacket **Modern Chemistry** Holt, Rinehart and Winston Staff,2006-01 **Modern Chemistry** Holt Rinehart & Winston,1998-01-01 2000 2005 State Textbook Adoption Rowan Salisbury **Holt Biology** Holt Rinehart & Winston,2003-08 **Holt Physical** Holt, Rinehart and Winston Staff,1994 *Children's Books in Print* R R Bowker Publishing,Bowker,1999-12 *Trace Environmental Quantitative Analysis* Paul R. Loconto,2020-12-27 A thorough and timely update this new edition presents principles techniques and applications in this sub discipline of analytical chemistry for quantifying traces of potentially toxic organic and inorganic chemical substances found in air soil fish and water as well as serum plasma urine and other body fluids The author addresses regulatory aspects calibration verification and the statistical treatment of analytical data including instrument detection limits quality assurance quality control sampling and sample preparation and techniques that are used to quantify trace concentrations of organic and inorganic chemical substances Key Features Fundamental principles are introduced for the more significant experimental approaches to sample preparation Principles of instrumental analysis determinative techniques for trace organics and trace inorganics analysis An introduction to the statistical treatment of trace analytical data How to calculate instrument detection limits based on weighted least squares confidence band calibration statistics Includes an updated series of student tested experiments **Books in Print Supplement** ,2002 *El-Hi Textbooks and Serials in Print* ,1985 **Holt General Science** William L. Ramsey,1988 **Holt Algebra 1 2003** Holt Rinehart & Winston,Holt, Rinehart and Winston Staff,2003 Gaither's Dictionary of Scientific Quotations Carl C. Gaither,Alma E. Cavazos-Gaither,2008-01-08 Scientists and other keen observers of the natural world sometimes make or write a statement pertaining to scientific activity that is destined to live on beyond the brief period of time for which it was intended This book serves as a collection of these statements from great philosophers and thought influencers of science past and present It allows the reader quickly to find relevant quotations or citations Organized thematically and indexed alphabetically by author this work makes readily available an unprecedented collection of approximately 18 000 quotations related to a broad range of scientific topics El-Hi Textbooks & Serials in Print, 2005 ,2005 **Holt Science and Technology** Holt Rinehart & Winston,2004-02 *The High School* ,1923 **The Science Teacher** ,1979 Some issues are accompanied by a CD ROM on a selected topic **Advertising Techniques** ,1980 Te HS&T J Holt Rinehart & Winston,Holt, Rinehart and Winston Staff,2004-02 **Children's Books in Print, 2007** ,2006

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