

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 Modern Chemistry Chapter 11 Section 1 Review Answers

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Modern Chemistry Holt Rinehart & Winston, Holt, Rinehart and Winston Staff, 2001 **Holt Chemistry** Ralph Thomas Myers, 2004 Saturday Review, 1863 **Books in Print Supplement**, 2002 The Saturday Review of Politics, Literature, Science and Art, 1863 *Modern Chemistry* Nicholas D. Tzimopoulos, 1993 **The Saturday Review of Politics, Literature, Science, Art, and Finance**, 1863 Children's Books in Print R R Bowker Publishing, Bowker, 1999-12 Lab Experiments Modern Chemistry Harold Clark Metcalfe, 1982 **"The" Athenaeum**, 1845 **Technical Book Review Index**, 1966 **Climate Change 2013 - The Physical Science Basis** Intergovernmental Panel on Climate Change (IPCC), 2014-03-24 This Fifth Assessment Report of the Intergovernmental Panel on Climate Change IPCC will again form the standard scientific reference for all those concerned with climate change and its consequences including students and researchers in environmental science meteorology climatology biology ecology and atmospheric chemistry It provides invaluable material for decision makers and stakeholders at international national and local level in government businesses and NGOs This volume provides An authoritative and unbiased overview of the physical science basis of climate change A more extensive assessment of changes observed throughout the climate system than ever before New dedicated chapters on sea level change biogeochemical cycles clouds and aerosols and regional climate phenomena Extensive coverage of model projections both near term and long term climate projections A detailed assessment of climate change observations modelling and attribution for every continent A new comprehensive atlas of global and regional climate projections for 35 regions of the world The Athenæum, 1845 **Early Modern Prophecies in Transnational, National and Regional Contexts (3 vols.)** Lionel Laborie, Ariel Hessayon, 2020-12-07 In this 3 volume set of primary sources Lionel Laborie and Ariel Hessayon bring together a wide range of vital sources for the study of prophecy in the early modern world This meticulously edited collection includes rare material and fascinating manuscripts published in English for the first time Volumes are organised geographically each with its own introduction by a specialist Together with their respective contributors they show how prophecies circulated widely throughout this period at all levels of society Indeed they often emerged in times of crisis and were delivered as warnings as well as signals of hope Moreover they were constantly adapted and translated to suit ever changing contexts including those for which they had not been originally intended Contributors include Viktoria Franke Monika Frohnapfel William Gibson Mayte Green Marios Hatzopoulos Jacqueline Hermann Ariel Hessayon Warren Johnston Lionel Laborie Adelisa Malena Andreas Pe ar Martin Pjecha Michael Riordan Lu s Filipe Silv rio Lima Damien Tricoire Leslie Tuttle and Kristine Wirts *Reclaiming Our Legacy* Steven M. Brown, 1986 *The Examiner*, 1844 *Unmuted* Heather Hansen, 2022-03-17 An essential guide to professional communication Professional communication has become more complex than ever as with the rise of remote working and the increasing prominence of social media we frequently find ourselves muted when we can't find the opportunities to speak up

or our ideas aren't getting the credit they deserve. In *Unmuted*, Heather Hansen draws upon her years of experience as a communication specialist and consultant to illustrate how you can overcome these obstacles and make your voice heard. Building upon research from business psychology, cultural studies, and linguistics, *Unmuted* is the essential guide to professional communication. Through the unique *Unmuted* framework, it provides practical strategies that will bring confidence and clarity to every aspect of your career, from writing perfectly worded emails to delivering powerful presentations.

The Illustrated London News, 1858 *The Spectator*, 1842 A weekly review of politics, literature, theology, and art *Journal of Geological Education*, 1975

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