

Chapter 10 Review: Chemical Quantities & Calculations

(molar – mole & volume calculations, % composition, empirical & molecular formulas)

For the test, be sure that you are familiar, and able to complete, the problems below as well as the problems found on the following worksheets: "Molecular Weight and Mole Calculations," "Percent Comp. & Chemical Formula Calculations" and "Chapter 10 Sample Problems." Check the class website for answers to the review worksheet.

1. The air around you is made up of 20.95% oxygen. How many oxygen molecules are in 75.0 grams of air? The density of air is 1.19 g/L. *assume STP.*
2. How much helium (grams) would be needed to inflate a balloon to a volume of 5.50L? *assume STP.*
3. The molecular formula of an antibacterial drug is $C_{17}H_{18}FN_2O_5$. How many fluorine atoms are in 150mg of this drug?
4. A molecule is made up of 40.0% carbon, 6.67% hydrogen, and an unknown amount of oxygen. What is the molecular formula of the molecule if its molar mass is 90.0g/mole?
5. What is the empirical formula for a compound made up of 71.72% chlorine, 16.16% oxygen and 12.12% carbon? Calculate the molecular formula for the compound if it has a molar mass of 296.7g/mol.
6. How many molecules are in 8.42 Kilograms of C_2H_6 ?

6a Chemical Quantities Extra Practice Problems

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Addison-Wesley Chemistry,1990 **Chemistry for the Biosciences** Jonathan Crowe,Tony Bradshaw,2014 Leading students through the essential concepts that are central to understanding biological systems this text uses everyday examples and analogies to build their confidence in an often daunting subject By focusing on the key themes that unify the subject it shows how integral chemistry is to the biosciences **Basic Concepts of Chemistry** Leo J. Malone,Theodore Dolter,2008-12-03 Engineers who need to have a better understanding of chemistry will benefit from this accessible book It places a stronger emphasis on outcomes assessment which is the driving force for many of the new features Each section focuses on the development and assessment of one or two specific objectives Within each section a specific objective is included an anticipatory set to orient the reader content discussion from established authors and guided practice problems for relevant objectives These features are followed by a set of independent practice problems The expanded Making it Real feature showcases topics of current interest relating to the subject at hand such as chemical forensics and more medical related topics Numerous worked examples in the text now include Analysis and Synthesis sections which allow engineers to explore concepts in greater depth and discuss outside relevance **Chemistry** John S. Phillips,Cheryl Wistrom,2000

Inorganic Chemistry Exam Leaders Expert, This book is helpful for all competitive exams **Solving Problems in Chemistry** Rod O'Connor,Charles Mickey,Alton Hassell,1977 **Educart ICSE Class 10 Question Bank 2025 Chemistry One Shot for 2024-25 Exam** Educart,Sir Tarun Rupani,2024-06-17 What You Get Analytical based Q sAll Important Q s Educart ICSE Class 10 CHEMISTRY One Shot Question Bank 2024 25 Updated for 2025 Exam Strictly Based on ICSE Specimen Paper 15th May 2024 Competency based Q s as per revised ICSE pattern Push Yourself to perform well with High Order Q sDirect All Types of Memory based Q s and PYQ s Why choose this book First Book to introduce 25% High Order Ability Questions as per ICSE Specimen Papers 2025 **Ebook: Chemistry** Julia Burdge,2014-10-16 Chemistry Third Edition by Julia Burdge offers a clear writing style written with the students in mind Julia uses her background of teaching hundreds of general chemistry students per year and creates content to offer more detailed explanation on areas where she knows they have problems With outstanding art a consistent problem solving approach interesting applications woven throughout the chapters and a wide range of end of chapter problems this is a great third edition text **Addison-Wesley Chemistry** Antony C. Wilbraham,Dennis D. Staley,Michael S. Matta,Edward L. Waterman,Prentice-Hall Staff,2001-02 To purchase or download a workbook click on the Purchase or Download button to the left To purchase a workbook enter the desired quantity and click Add to Cart To download a free workbook right click the FREE Download PDF link and save to your computer This will result in a faster download as opposed to left clicking and opening the link **Pp/Chemistry** BarCharts, Inc.,2008-06-18 **Prentice Hall Chemistry**,2000 **Introductory Chemistry** Nivaldo J. Tro,2006 **Chemical News and Journal of Physical Science** William Crookes,James H. Gardiner,Gerald Druce,H. W.

Blood-Ryan,1900 *Instructors Resource Guide* Consortium,2001-11 **New England Journal of Education** ,1877
The Electrical Journal ,1891 [Handbook of Cellular Chemistry](#) Annabelle Cohen,1979 *Coagulation and Flocculation*
Petr Filip,Martin Pivokonský,2025-10-06 How to ensure clean potable water Hydrochemistry colloidal chemistry physics plus engineering aspects are combined in this book for practical drinking water treatment Focusing on coagulation flocculation as a key step in this process it provides principles optimisation and efficiency evaluation broader theoretical background and practical aspects [General Chemistry](#) Ralph H. Petrucci,William S. Harwood,1993 General Chemistry Principles and Modern Applications is recognized for its superior problems lucid writing and precision of argument This updated and expanded edition retains the popular and innovative features of previous editions including Feature Problems follow up Integrative and Practice Exercises to accompany every in chapter Example and Focus On application boxes as well as new Keep in Mind marginal notes Topics covered include atoms and the atomic theory chemical compounds and reactions gases Thermochemistry electrons in atoms chemical bonding liquids solids and intermolecular forces chemical kinetics principles of chemical equilibrium acids and bases electrochemistry representative and transitional elements and nuclear and organic chemistry For individuals interested in a broad overview of chemical principles and applications **Holt Chemistry** Ralph Thomas Myers,2004

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