

My "Mole Concept Test" will take place on: _____!

Before I write my "Mole Concept Test", I will be able to:

- ☐ **explain why the mole is used in chemistry**
 - know how to find *atomic mass* on the periodic table
 - know the relationship between atomic mass and molar mass
 - recognize that a mole is a unit for counting atoms, ions, and molecules
- ☐ **perform calculations involving the mole**
 - determine the molar mass of an element or compound
 - convert among particles, moles, and mass
- ☐ **understand the relationship between moles and gases at STP**
 - know the volume of a mole of gas at STP (i. e. 22.4 L)
 - convert among moles, mass, and volume of a gas at STP
- ☐ **perform calculations involving molecular and empirical formulae**
 - distinguish between molecular and empirical formulae
 - determine the percent composition by mass from the formula of a compound
 - determine the empirical formula for a compound from its percent composition by mass
 - determine a molecular formula from the molecular mass and empirical formula
- ☐ **Describe concentration in terms of molarity**
 - Know that the units for molarity/concentration are mol/L or M
 - Write a procedure for how to prepare a solution of known molarity (a standard solution)
- ☐ **Perform calculations involving molarity**
 - Perform calculations relating mass, moles, volume, and molarity
- ☐ **Understand the meanings of the following vocabulary words:**
 - atomic mass
 - empirical formula
 - molarity
 - molar mass
 - molar solution
 - mole
 - molecular formula
 - molecular mass
 - quantitative transfer
 - percentage composition
 - standard solution
 - STP

Chemistry Holt Study Guide Mole Concept

Ingo Eilks, Avi Hofstein



Chemistry Holt Study Guide Mole Concept:

Holt Chemistry Ralph Thomas Myers, 2004 *Holt Chemistry* Holt Rinehart & Winston, 2003-01-24 *El-Hi Textbooks & Serials in Print*, 2005, 2005 **Mole Concept Explained (General Chemistry Quick Review)** E Staff, Learn and review on the go Use Quick Review Science Study Notes to help you learn or brush up on the subject quickly You can use the review notes as a reference to understand the subject better and improve your grades Easy to remember facts to help you perform better Perfect study notes for all high school and college students **Teaching Chemistry - A Studybook** Ingo Eilks, Avi Hofstein, 2013-04-20 This book focuses on developing and updating prospective and practicing chemistry teachers pedagogical content knowledge The 11 chapters of the book discuss the most essential theories from general and science education and in the second part of each of the chapters apply the theory to examples from the chemistry classroom Key sentences tasks for self assessment and suggestions for further reading are also included The book is focused on many different issues a teacher of chemistry is concerned with The chapters provide contemporary discussions of the chemistry curriculum objectives and assessment motivation learning difficulties linguistic issues practical work student active pedagogies ICT informal learning continuous professional development and teaching chemistry in developing environments This book with contributions from many of the world's top experts in chemistry education is a major publication offering something that has not previously been available Within this single volume chemistry teachers teacher educators and prospective teachers will find information and advice relating to key issues in teaching such as the curriculum assessment and so forth but contextualised in terms of the specifics of teaching and learning of chemistry and drawing upon the extensive research in the field Moreover the book is written in a scholarly style with extensive citations to the literature thus providing an excellent starting point for teachers and research students undertaking scholarly studies in chemistry education whilst at the same time offering insight and practical advice to support the planning of effective chemistry teaching This book should be considered essential reading for those preparing for chemistry teaching and will be an important addition to the libraries of all concerned with chemical education Dr Keith S Taber University of Cambridge Editor Chemistry Education Research and Practice The highly regarded collection of authors in this book fills a critical void by providing an essential resource for teachers of chemistry to enhance pedagogical content knowledge for teaching modern chemistry Through clever orchestration of examples and theory and with carefully framed guiding questions the book equips teachers to act on the relevance of essential chemistry knowledge to navigate such challenges as context motivation to learn thinking activity language assessment and maintaining professional expertise If you are a secondary or post secondary teacher of chemistry this book will quickly become a favorite well thumbed resource Professor Hannah Sevan University of Massachusetts Boston

College Reading and Study Skills Nancy V. Wood, 1986 **High School Chemistry Teachers Magazine**, 1967
Modern Chemistry H. Clark Metcalfe, Joseph F. Castka, 1966 *Chemical Principles in Practice* Jerry A. Bell, 1967 This

forward looking laboratory text includes thirty three experiments designed to serve high level introductory chemistry courses. It is intended in part to give the students practice in techniques not only those generally considered the techniques of chemistry but also those of mathematics. However the only prerequisite is a good background in high school mathematics. Ideally suited for use with University Chemistry or College Chemistry by Bruce Mahan, this book follows the physical chemistry approach of these and most other modern chemistry texts, maintaining the same flavor, emphasis, and degree of sophistication. All experiments are open ended and include suggestions for following them up. There is considerable emphasis on the involvement of the student in planning his own procedures and quantitative thinking. Publisher *Holt Modern Chemistry*, 2006.

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