

WS Gas Laws - KEY

Boyle's Law

$$P_1 \times V_1 = P_2 \times V_2 \quad \text{At constant temperature}$$

Charles's Law

$$\frac{V_1}{T_1} = \frac{V_2}{T_2} \quad \begin{array}{l} \text{At constant pressure} \\ \text{Temperature in Kelvin} \\ \text{ } ^\circ\text{C} + 273 = \text{K} \end{array}$$

Lussac's Law

$$\frac{P_1}{T_1} = \frac{P_2}{T_2} \quad \begin{array}{l} \text{At constant volume} \\ \text{Temperature in Kelvin} \end{array}$$

Combined Gas Law

$$\frac{P_1 V_1}{T_1} = \frac{P_2 V_2}{T_2}$$

STP: 273 K & 1.00 atm

Concepts: (circle one choice)

- If the volume of a container of gas is reduced, what will happen to the pressure inside the container?
increase or decrease
- What happens to the volume of a gas when it is cooled to a lower temperature?
increase or decrease
- What happens to the pressure in a rigid container when it is slowly warmed?
increase or decrease

Sample Calculations:

(Remember: ALL temperatures MUST be in K, NOT °C)

- A sample of gas at 240 K and 670 mmHg occupies a 0.128 L volume. What volume will the gas occupy at 198 K if the pressure remains constant?

$$\frac{P_1 V_1}{T_1} = \frac{P_2 V_2}{T_2} \quad \frac{(0.128 \text{ L})}{(240 \text{ K})} = \frac{V_2}{(198 \text{ K})} \quad (0.128)(198) = V_2 = \boxed{0.106 \text{ L}}$$

- A sample of gas is in a steel container at -75.0°C and 1.48 atm. At what temperature will the sample have a pressure of 7.35 atm?

$$\text{K} = -75 + 273 = 198 \text{ K}$$

$$\frac{P_1 V_1}{T_1} = \frac{P_2 V_2}{T_2} \quad \frac{(1.48 \text{ atm})}{(198 \text{ K})} = \frac{(7.35 \text{ atm})}{T_2} \quad T_2(1.48) = (7.35)(198) \quad T_2 = \frac{(7.35)(198)}{(1.48)} = \boxed{983 \text{ K}}$$

- In an airplane, a gas sample occurs at a volume of 1.50 L at 760 mmHg. Suppose, while flying, the airplane loses pressure and the volume of the gas increases to 11.40 L. What is the pressure in the airplane if the temperature is constant?

$$\frac{P_1 V_1}{T_1} = \frac{P_2 V_2}{T_2} \quad (760 \text{ mmHg})(1.50 \text{ L}) = P_2(11.40 \text{ L}) \quad (760)(1.50) = P_2 = \boxed{100 \text{ mmHg}}$$

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Chemistry: Molecules, Matter, and Change Media Activities Book Loretta Jones, Carl Hoeger, Peter William Atkins, Regina Schoenfield-Tacher, 2000-01-15 The Media Activity Book MAB for Jones Atkins Chemistry molecules matter and change contains chapters with lists and descriptions of some of the media available as you study the chapter Each activity begin with a specific textbook reference Then you are given a time estimate of how long it will take to use the media An M media icon in the margin of the textbook means that media exists to support that area of text The media is found in three different places on the website and on two CDs

Instructional Technology Research, Design and Development: Lessons from the Field Alias, Nor Aziah, 2011-11-30 Design and development research which has considerable implications for instructional design focuses on designing and exploring products artifacts and models as well as programs activity and curricula Instructional Technology Research Design and Development Lessons from the Field is a practical text on design and development research in the field of instructional technology This book gives readers an overview of design and development research and how it is conducted in different contexts and for various purposes Further this reference source provides readers with practical knowledge on design and development research gained through investigation of lessons learned in the field

Prentice Hall Chemistry, 2000 Activities for a Differentiated Classroom: Level 6 Wendy Conklin, 2011-02-01 Easily implement grade appropriate lessons suitable for Grade 6 classrooms Based on current research these easy to use lessons are based on a variety of strategies to differentiate your instruction Activities are included to allow access to all learners ZIP file contains interactive whiteboard compatible resources including sample projects templates and assessment rubrics This resource is correlated to the Common Core State Standards and is aligned to the interdisciplinary themes from the Partnership for 21st Century Skills

The Three Sisters Ying Wu, John J. Carroll, Yongle Hu, 2019-05-21 This is the seventh volume in the series Advances in Natural Gas Engineering focusing on carbon dioxide CO₂ capture and sequestration acid gas injection and enhanced oil recovery the three sisters of natural gas engineering This volume includes information for both upstream and downstream operations including chapters detailing the most cutting edge techniques in acid gas injection carbon capture chemical and thermodynamic models and much more Written by some of the most well known and respected chemical and process engineers working with natural gas today the chapters in this important volume represent the most state of the art processes and operations being used in the field Not available anywhere else this volume is a must have for any chemical engineer chemist or process engineer in the industry Advances in Natural Gas Engineering is an ongoing series of books meant to form the basis for the working library of any engineer working in natural gas today

Getting to the Core of Literacy for History/Social Studies, Science, and Technical Subjects, Grades 6-12 Vicky Giouroukakis, Maureen Connolly, 2013-05-14 Literacy it s not just for English teachers anymore The new Common Core English Language Arts Standards aren t just for English teachers Fluent reading and writing are critically important to the

study of history social studies science and technical subjects too What s more the progress your students make is directly tied to their ability to process information they read and to express their ideas in writing So how do you make literacy a focus of your teaching without taking time away from essential content This practical resource packed with teacher tested CCSS based sample lessons shows you how using the Backward Design approach to set and meet your goals Each lesson template includes The teaching strategies you ll utilize Ways to incorporate technology and media Variations for differentiation and interdisciplinary connections Links to the work of major educational theorists Following these models you ll set the CCSS in your sights and develop lessons that both meet standards and fit your classroom Before you know it you ll be infusing reading and writing across your curriculum in purposeful and meaningful ways [The Software Encyclopedia 2000](#) Bowker Editorial Staff,2000-05 **Resources in education** ,1989-04 **Gas Purification** Arthur L Kohl,Richard Nielsen,1997-08-28 This massively updated and expanded fifth edition is the most complete authoritative engineering treatment of the dehydration and gas purification processes used in industry today Of great value to design and operations engineers it gives practical process and equipment design descriptions basic data plant performance results and other detailed information on gas purification processes and hardware This latest edition incorporates all significant advances in the field since 1985 You will find major new chapters on the rapidly expanding technologies of nitrogen oxide control with discussions of regulatory requirements and available processes absorption in physical solvents covering single component and mixed solvent systems and membrane permeation with emphasis on the gas purification applications of membrane units In addition new sections cover areas of strong current interest particularly liquid hydrocarbon treating Claus plant tail gas treating thermal oxidation of volatile organic compounds and sulfur scavenging processes This volume brings you expanded coverage of alkanolamines for hydrogen sulfide and carbon dioxide removal the removal and use of ammonia in gas purification the use of alkaline salt solutions for acid gas removal and the use of water to absorb gas impurities The basic technologies and all significant advances in the following areas are thoroughly described sulfur dioxide removal and recovery processes processes for converting hydrogen sulfide to sulfur liquid phase oxidation processes for hydrogen sulfide removal the absorption of water vapor by dehydrating solutions gas dehydration and purification by adsorption and the catalytic and thermal conversion of gas impurities **NBS Special Publication** ,1978 [Research in Education](#) ,1973 [Publications](#) United States. National Bureau of Standards,1978 **Publications of the National Bureau of Standards ... Catalog** United States. National Bureau of Standards,1978 *Catalog of National Bureau of Standards Publications, 1966-1976: Key word index* United States. National Bureau of Standards. Technical Information and Publications Division,1978 *Catalog of National Bureau of Standards Publications, 1966-1976* United States. National Bureau of Standards. Technical Information and Publications Division,1978 [Catalog of National Bureau of Standards Publications, 1966-1976](#) United States. National Bureau of Standards,1978 **Middle School Life Science** Judy Capra,1999-08-23 Middle School Life Science Teacher s

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