

# Gas Laws Practice

Name: \_\_\_\_\_

Date: \_\_\_\_\_

Hour: \_\_\_\_\_

**IMPORTANT:** whenever you use temperature, it must be in degree Kelvin (K), so remember the equation:  $K = ^\circ C + 273$

1. a) convert  $39\text{ }^\circ\text{C}$  to K.                      b) convert  $127\text{ K}$  to  $^\circ\text{C}$ .
2. A gas has an initial volume of  $2.75\text{ L}$  at a temperature of  $285\text{ K}$ . If the temperature changes to  $380\text{ K}$ , what is the new volume of the gas if the pressure is unchanged?
3. Gas can often be cooled by compressing it while keeping the pressure constant. If I have  $45.0\text{ L}$  of gas at room temperature ( $22^\circ\text{C}$ ) and I compress it so that the final volume is  $0.50\text{ L}$ , what is the final temperature of the gas if the pressure is constant?
4. The volume of a gas is  $2.5\text{ L}$  when the pressure is at standard pressure ( $101.325\text{ kPa}$ ). What is the volume of the gas if the pressure decreases to  $85\text{ kPa}$  and the temperature remains unchanged?
5. A  $5.0\text{ L}$  container of gas experiences a temperature change so that the final temperature is 4 times the initial temperature. What is the size of the container after the temperature change? (Assume constant pressure.)
6. At  $45^\circ\text{C}$  the volume of a certain gas is  $27.5\text{ L}$  and the pressure is  $210\text{ kPa}$ . What is the volume of the gas at standard temperature ( $273\text{ K}$ ) and  $310\text{ kPa}$  of pressure?
7. The pressure of a sample of gas was  $97.8\text{ kPa}$  and the volume of the gas was  $3.75\text{ L}$ . If the gas occupied a container with a volume of  $8.00\text{ L}$ , what would the pressure in the container be?
8. Isothermal expansion refers to allowing a gas to expand while keeping the temperature constant. This is one means to simulate a vacuum. If a gas originally at  $97\text{ kPa}$  is allowed to expand from  $0.25\text{ L}$  to  $182\text{ L}$ , what is the pressure of the gas?
9. A gas is initially at a pressure of  $225\text{ kPa}$  and a temperature of  $245\text{ K}$  in a container that is  $4.5\text{ L}$ . If the gas is compressed to a volume of  $2.1\text{ L}$  and the temperature changes to  $275\text{ K}$ , what is the new pressure?

## Skill Practice 35 Gas Laws Practice Answers

**AW Chickering**



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**Chemfile Skills Practice Experiments** Holt Rinehart & Winston, Holt, Rinehart and Winston Staff, 2006      **Modern Federal Practice Digest** ,1960      **West's Federal Practice Digest 4th** ,1989      **West's Federal Practice Digest** ,2002

New Physics for You Keith Johnson, 2001 for You is a popular series of textbooks ideal for the mixed ability classroom This Support Pack has been fully revised and updated with activities ICT support technician cards additional revision and assessment material including past paper questions and model answers [www.physicsforyou.co.uk](http://www.physicsforyou.co.uk)      *Stem, steam, computational thinking and coding: Evidence-based research and practice in children's development* Stamatis Papadakis, Michail Kalogiannakis, Ali Ibrahim Can Gözümlü, 2023-03-13      Biomedical Science Practice Hedley Glencross, Nessar Ahmed, Qiuyu Wang, 2010-10-14 Case studies and other examples enrich the text firmly rooting it in the context of clinical and biomedical practice Book Jacket      Electrical and Electronic Principles and Technology John Bird, 2017-03-31 This practical resource introduces electrical and electronic principles and technology covering theory through detailed examples enabling students to develop a sound understanding of the knowledge required by technicians in fields such as electrical engineering electronics and telecommunications No previous background in engineering is assumed making this an ideal text for vocational courses at Levels 2 and 3 foundation degrees and introductory courses for undergraduates      Math Review Toolkit for General Chemistry Gary Long, 2006-05-30      *Kaplan LSAT Premier 2016-2017 with Real Practice Questions* Kaplan Test Prep, 2016-01-05 An updated version of the best selling comprehensive LSAT prep book on the market Written by Kaplan's expert LSAT faculty who teach the world's most popular LSAT course this book contains in depth strategies test information and hundreds of real LSAT questions from LSAC for the best in realistic practice with detailed explanations for each      **Popular Science** ,1961-01 Popular Science gives our readers the information and tools to improve their technology and their world The core belief that Popular Science and our readers share The future is going to be better and science and technology are the driving forces that will help make it better      *Education and Training for the Oil and Gas Industry: The Evolution of Four Energy Nations* Phil Andrews, Jim Playfoot, Simon Augustus, 2015-05-09 The third book in the Getenergy Guides series The Evolution of Four Energy Nations considers how four very different countries have evolved as oil and gas producing nations and how the interventions of government industry and the education and training sector have addressed workforce and skills development challenges in each of these countries This volume will explore in each case the historical growth of the industry the dynamics of the industry today and the projected direction of travel for the industry in the future Within this context the volume will examine the nature of the skills and workforce demands that each country has experienced and will analyze the influence of policy initiatives including those related to the establishment and running of national oil companies the impact of industry activities and the role of education and training providers Each of these four extended case studies will reveal what we can learn from past and recent experiences The case

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**Gardener, and Country Gentleman (varies Slightly)** ,1912 **Hailing's circular** Thomas Hailing,1877 Popular Mechanics ,1959-12 Popular Mechanics inspires instructs and influences readers to help them master the modern world Whether it s practical DIY home improvement tips gadgets and digital technology information on the newest cars or the latest breakthroughs in science PM is the ultimate guide to our high tech lifestyle Wright & Leahey's Nurses and Families Zahra Shajani,Diana Snell,2023-01-23 The ideal how to book Master assessment communication and intervention skills when working with families across the lifespan Rely on practical guidelines for family interviewing Consult clinical tools skills and case study examples Harness the power of the nurse family relationship Use the Calgary Family Assessment and Intervention Models to assess families effectively and know when and how to intervene to reduce suffering and promote health They are easy to apply and practical models for nurses working with a wide variety of complex issues and family structures from the first interview through to discharge or termination From theory to practice you ll develop the knowledge you need to prepare conduct and document family interviews while you also hone your skills to use questions more effectively You ll also learn how to avoid the three most common errors in family nursing and how to conduct a 15 minute interview **The Plumbers Trade Journal** ,1906 *Success at AQA Physics B A2* Ken Price, Gerard Kelly,2001 This title is being produced in collaboration with the exam board and they will be marketing it to centres who follow AQA Physics B A level It consists of concise content exactly tailored to and following the sequence of the specification This A2 book covers the second half of the course In October 2000 the AS book covering the first half of the course was published The book provides the student with information about the examination papers advice on how to tackle exam questions effectively including synoptic questions definitions and facts which need to be learnt essential concepts and principles explained carefully and concisely real life applications of content particularly in the context of Information and Communication which is the underlying theme of the specification lots of practice exam questions It s the essential guide to this exam **Cruising World** ,1982-01 Social Work and Social Welfare Marla Berg-Weger,2019-02-25 Social Work and Social Welfare An Invitation is a best selling text and website for introduction to social work courses It provides students with the knowledge skills and values that are essential for working with individuals families groups organizations communities and public policy in a variety of practice

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