

# Gas Laws Worksheet - CP

SHOW YOUR WORK for full credit!!!

Use the Combined Gas Law (or its component formulas) to answer the following questions:

21) For questions (a → f) circle the answer that describes what would happen in each scenario:

- |  |                                 |
|--|---------------------------------|
| a) For Boyle's law if pressure increases, what happens to volume?            | (Increase / Decrease / Neither) |
| b) For Boyle's Law, if volume decreases, what happens to pressure?           | (Increase / Decrease / Neither) |
| c) For Charles's Law, if temperature increases, what happens to volume?      | (Increase / Decrease / Neither) |
| d) For Charles's Law, if volume decreases, what happens to temperature?      | (Increase / Decrease / Neither) |
| e) For Gay-Lussac's Law, if pressure increases, what happens to temperature? | (Increase / Decrease / Neither) |
| f) For Gay-Lussac's Law, if temperature decreases, what happens to pressure? | (Increase / Decrease / Neither) |

22) If 22.5 L of nitrogen at 748 mm Hg are compressed to 725 mm Hg at constant temperature. What is the new volume?

23) Calculate the decrease in temperature when 6.00 L at 20.0 °C is compressed to 4.00 L.

24) The gases in a hair spray can are at a temperature of 27 °C and a pressure of 3 atm . If the gases in the can reach a pressure of 9 atm, the can will explode. To what temperature must the gases be raised in order for the can to explode? Assume constant volume.

25) A gas balloon has a volume of 106.0 liters when the temperature is 45.0 °C and the pressure is 740.0 mm of mercury. What will its volume be at 20.0 °C and 780 .0 mm of mercury pressure?

26) What pressure is required to compress 196.0 liters of air at 1.00 atmosphere into a cylinder whose volume is 26.0 liters?

27) A gas occupies 900.0 mL at a temperature of 27.0 °C. What is the volume at 132.0 °C?

28) Maybeline Cousteau's backup oxygen tank reads 900 mmHg while on her boat, where the temperature is 27 °C. When she dives down to the bottom of an unexplored methane lake on a recently-discovered moon of Neptune, the temperature will drop down to -183 °C. What will the pressure in her backup tank be at that temperature?

29) If 10.0 liters of oxygen at STP are heated to 512 °C, what will be the new volume of gas if the pressure is also increased to 2.0 atm?

# Gas Laws Worksheet And Answers

**O. Jerry Parker, Gary L. Breneman**



## Gas Laws Worksheet And Answers:

A Guide to Teaching in the Active Learning Classroom Paul Baepler, J. D. Walker, D. Christopher Brooks, Kem Saichaie, Christina I. Petersen, 2023-07-03 While Active Learning Classrooms or ALCs offer rich new environments for learning they present many new challenges to faculty because among other things they eliminate the room's central focal point and disrupt the conventional seating plan to which faculty and students have become accustomed. The importance of learning how to use these classrooms well and to capitalize on their special features is paramount. The potential they represent can be realized only when they facilitate improved learning outcomes and engage students in the learning process in a manner different from traditional classrooms and lecture halls. This book provides an introduction to ALCs briefly covering their history and then synthesizing the research on these spaces to provide faculty with empirically based practical guidance on how to use these unfamiliar spaces effectively. Among the questions this book addresses are: How can instructors mitigate the apparent lack of a central focal point in the space? What types of learning activities work well in the ALCs and take advantage of the affordances of the room? How can teachers address familiar classroom management challenges in these unfamiliar spaces? If assessment and rapid feedback are critical in active learning, how do they work in a room filled with circular tables and no central focus point? How do instructors balance group learning with the needs of the larger class? How can students be held accountable when many will necessarily have their backs facing the instructor? How can instructors evaluate the effectiveness of their teaching in these spaces? This book is intended for faculty preparing to teach in or already working in this new classroom environment for administrators planning to create ALCs or experimenting with provisionally designed rooms and for faculty developers helping teachers transition to using these new spaces.

**Learning and Leading with Technology**, 1996

**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.

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activities and clear thumbnail answer keys Each book has 128 pages and 100 pages or more of reproducible content to help students review and reinforce essential skills in individual science topics The series will be aligned to current science standards *The Role of Language in Content Pedagogy* Lay Hoon Seah,Rita Elaine Silver,Mark Charles Baildon,2022-11-01

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**TUGboat** ,1998 *Synthesis and Characterization of Nitric Oxide-releasing Agents/polymers for Biomedical Applications* Melissa May Batchelor,2004 **Prentice Hall Physical Science Concepts in Action Program Planner**

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