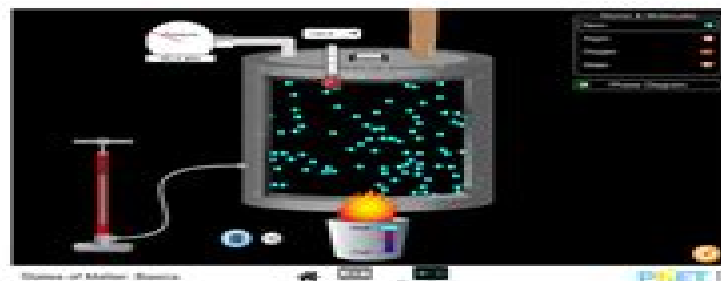


## Gas Laws Simulation Lab

- Go to [Phet.colorado.edu](http://Phet.colorado.edu)
- Search for the "States of Matter: Basics" simulation.
- Click on the "Phase Changes" icon.
- Select "Oxygen."



1. The simulation shows a quantity of oxygen molecules. What state of matter is this?
2. How do you know?  
Particles have a define shape
3. Heat the oxygen to about 150 K. What state of matter is this?
4. How do you know?  
because they are all spread out and have no define shape

### Experiment One: Constant volume.

- Leave the oxygen at 150 K. In the table below, record the pressure and temperature of the oxygen in the first row.
- Heat the oxygen to about 450 K.
- Record the new temperature and pressure in the second row of the table.
- Heat the oxygen to about 900 K.
- Record the new temperature and pressure in the third row of the table.

Temperature vs. pressure at constant volume	
Temperature (K)	Pressure (atm)
150	2.5
450	11.8
900	35.5

5. Write a statement describing how the temperature of a quantity of a gas is related to its pressure at constant volume.  
As the temperture rises, so does pressure

# Phet Gas Law Simulation Answers

**Philip Hicks**

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the author's name.

## **Phet Gas Law Simulation 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. [Handbook of Research on Science Literacy Integration in Classroom Environments](#) Tai, Chih-Che, Moran, Renee M. R., Robertson, Laura, Keith, Karin, Hong, Huili, 2018-10-12 Secondary schools are continually faced with the task of preparing students for a world that is more connected, advanced, and globalized than ever before. In order to adequately prepare students for their future, educators must provide them with strong reading and writing skills as well as the ability to understand scientific concepts. The [Handbook of Research on Science Literacy Integration in Classroom Environments](#) is a pivotal reference source that provides vital research on the importance of cross-curriculum discipline connections in improving student understanding and education. While highlighting topics such as curriculum integration, online learning, and instructional coaching, this publication explores practices in teaching students how to analyze and interpret data as well as reading, writing, and speaking. This book is ideally designed for teachers, graduate-level students, academicians, instructional designers, administrators, and education researchers seeking current research on science literacy adoption in contemporary classrooms. [A Standard Dictionary of the English Language](#) Isaac Kaufman Funk, 1906 [Ideal Gas Law 51 Success Secrets - 51 Most Asked Questions on Ideal Gas Law - What You Need to Know](#) Philip Hicks, 2014-10-07 It's a brand new Ideal gas law world. There has never been a Ideal

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