

Gas Properties PhET Simulation Worksheet

Learning Goals

- Design experiments to measure the relationship between pressure, volume, and temperature, and moles of an ideal gas.
- Describe these relationships graphically (using graphs) and quantitatively (using numbers).

Experiment

1. Go to [Gas Properties PhET Simulation](https://phet.colorado.edu/en/simulations/gas-properties) and click on the picture. Select Ideal.
 - a. <https://phet.colorado.edu/en/simulations/gas-properties>
2. Familiarize yourself with the controls.

Ideal Screen

Pump gas molecules into a container and discover what happens as you change the volume, add or remove heat, and more.

The screenshot shows the PhET Gas Properties simulation interface. The central window displays a container filled with blue particles. To the left, there are three control panels: 'COUNT' (number of particles), 'RESIZE' (container width), and 'ADD or REMOVE' (heat). To the right, there are three more control panels: 'HOLD' (parameter constant), 'VIEW' (container width), 'PUMP' (particles into container), and 'EMPTY' (the container). A 'Real Gases' menu is also visible on the right side.

3. Perform an experiment to determine the relationship between the variables listed in the table below. Summarize your findings by explaining the relationship between variables.

Variables	Constant	Explain your Experiment	Relationship Between Variables
V and P	T		
V and T	P		

Gas Properties Simulation Activity Answer Key

Calvin C. Mattax, Robert L. Dalton



Gas Properties Simulation Activity Answer Key:

Gas Accretion onto Galaxies Andrew Fox, Romeel Davé, 2017-03-23 This edited volume presents the current state of gas accretion studies from both observational and theoretical perspectives and charts our progress towards answering the fundamental yet elusive question of how galaxies get their gas Understanding how galaxies form and evolve has been a central focus in astronomy for over a century These studies have accelerated in the new millennium driven by two key advances the establishment of a firm concordance cosmological model that provides the backbone on which galaxies form and grow and the recognition that galaxies grow not in isolation but within a cosmic ecosystem that includes the vast reservoir of gas filling intergalactic space This latter aspect in which galaxies continually exchange matter with the intergalactic medium via inflows and outflows has been dubbed the baryon cycle The topic of this book is directly related to the baryon cycle in particular its least well constrained aspect namely gas accretion Accretion is a rare area of astrophysics in which the basic theoretical predictions are established but the observations have been as yet unable to verify the expectations Accretion has long been seen around the Milky Way in so called High Velocity Clouds but detecting accretion even around nearby galaxies has proved challenging its multi phase nature requires sensitive observations across the electromagnetic spectrum for full characterization A promising approach involves looking for kinematic signatures but accretion signatures are often confused with internal motions within galaxies Accretion studies therefore touch a wide range of astrophysical processes and hence a wide cross section of the astronomical community As observational facilities are finally able to access the wavelength ranges and depths at which accretion processes may be manifest the time is right to survey these multiple lines of investigation and determine the state of the field in accretion studies of the baryon cycle

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 [Monthly Catalog of United States Government Publications](#) United States. Superintendent of Documents, 1985 February issue includes Appendix entitled Directory of United States Government periodicals and subscription publications September issue includes List of depository libraries June and December issues include semiannual index *Monthly Catalogue, United States Public Documents*, 1985

Oil & Gas Science and Technology ,2007 *Reservoir Simulation* Calvin C. Mattax,Robert L. Dalton,1990 Reservoir Simulation written by experienced simulation users was designed to help demystify the what s and whys of designing editing and analyzing reservoir simulations *The Journal of Canadian Petroleum Technology* ,2002 **The Chemical Engineer** ,2008 **Chemical Engineering Progress** ,1996 **Prentice Hall Chemistry** ,2000 **Government Reports Announcements & Index** ,1986-07 **Chemistry and Industry** ,1949 **Chemistry and Industry Review** ,1949
Journal of the Society of Chemical Industry Society of Chemical Industry (Great Britain),1949 *Cornell Engineer* ,1980
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