

Gas Laws Computer Lab

Purpose

- 1.) To identify and describe the 4 properties of a gas sample: moles (n), volume (V), temperature (T), pressure (P)
- 2.) To determine the relationship between 2 variables at a time while keeping the other 2 variables constant
 - a. P and V (while keeping n and T constant)
 - b. V and T (while keeping n and P constant)
 - c. P and T (while keeping n and V constant)
 - d. V and n (while keeping P and T constant)

Definition of gas variables

A sample of gas in a closed container has 4 main characteristics:

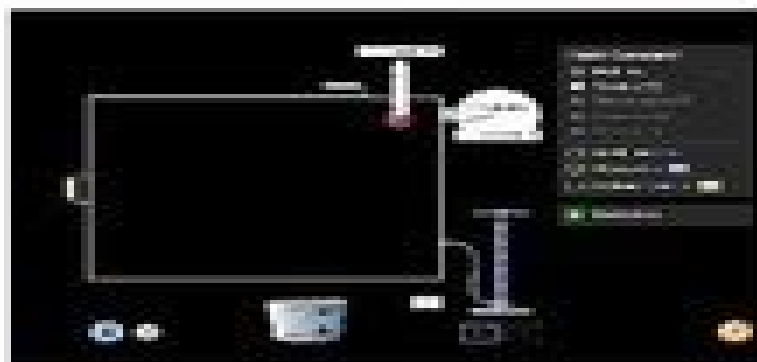
- a. Number of _____ of gas (n) – the quantity of gas particles present
- b. Volume of gas (V) – the amount of _____ the gas sample occupies
- c. _____ of gas (T) – the average kinetic energy of the gas particles (i.e. how fast they're moving)
- d. Pressure of gas (P) – the frequency and forcefulness of _____ between particles and container walls

Procedure

Part A – Set Up

- 1.) Google "phet gases intro", click the first search result, click PLAX button, double-click "Laws",
 or go to <https://phet.colorado.edu/en/simulations/where-to-play/gases-intro-laws>

Your screen should look like this:



- 2.) Open the "Particles" box. Make sure the like pump is purple color for heavy particles. Move the like pump handle to the highest position and push down, so pump gas particles into the container. There are now 30 heavy gas particles in the container. In the "Particles" box, use the arrow buttons to make 100 heavy gas particles in container.

Phet Gas Law Simulation Lab Answers

JS Bruner



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Internal Assessment Physics for the IB Diploma: Skills for Success Christopher Talbot, 2019-05-27 Exam board International Baccalaureate Level IB Diploma Subject Physics First teaching September 2021 First exams Summer 2023 Aim for the best Internal Assessment grade with this year round companion full of advice and guidance from an experienced IB Diploma Physics teacher Build your skills for the Individual Investigation with prescribed practicals supported by detailed examiner advice expert tips and common mistakes to avoid Improve your confidence by analysing and practicing the practical skills required with comprehension checks throughout Prepare for the Internal Assessment report through exemplars worked answers and commentary Navigate the IB requirements with clear concise explanations including advice on assessment objectives and rules on academic honesty Develop fully rounded and responsible learning with explicit reference to the IB learner profile and ATLs 100 Brain-Friendly Lessons for Unforgettable Teaching and Learning (9-12) Marcia L. Tate, 2019-07-24 Use research and brain based teaching to engage students and maximize learning Lessons should be memorable and engaging When they are student achievement increases behavior problems decrease and teaching and learning are fun In 100 Brain Friendly Lessons for Unforgettable Teaching and Learning 9 12 best selling author and renowned educator and consultant Marcia Tate takes her bestselling Worksheets Don't Grow Dendrites one step further by providing teachers with ready to use lesson plans that take advantage of the way that students really learn Readers will find 100 cross curricular sample lessons from each of the four major content areas Plans designed around the most frequently taught objectives Lessons educators can immediately adapt 20 brain compatible research based instructional strategies Questions that teachers should ask and answer when planning lessons Guidance on building relationships with students to maximize learning Teaching and Learning Online Franklin S. Allaire, Jennifer E. Killham, 2022-04-01 Science is unique among the disciplines since it is inherently hands on However the hands on nature of science instruction also makes it uniquely challenging when teaching in virtual environments How do we as science teachers deliver high quality experiences in an online environment that leads to age grade level appropriate science content knowledge and literacy but also collaborative experiences in the inquiry process and the nature of science The expansion of online environments for education poses logistical and pedagogical challenges for early childhood and elementary science teachers and early learners Despite digital media becoming more available and ubiquitous and increases in online spaces for teaching and learning Killham et al 2014 Wong et al 2018 PreK 12 teachers consistently report feeling underprepared or overwhelmed by online learning environments Molnar et al 2021 Seaman et al 2018 This is coupled with persistent challenges related to elementary teachers lack of confidence and low science teaching self efficacy Brigido Borrachero Bermejo Gunning Duran Duran 2004 Ideal for undergraduate teacher candidates graduate students teacher educators classroom teachers parents and administrators this book addresses why and how teachers use online environments to teach science content and work with

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