

Experiment 1: Charles's Law

Table 1: Temperature and Volume Data

Temperature Conditions	Temperature ($^{\circ}\text{C}$)	Temperature (K)	Syringe Volume (mL)
Room Temperature	23 C	296.15 K	5 ml
Hot Water	45 C	318.15 K	1 ml
Ice Water	5 C	278.15 K	0.3 ml

Questions:

1. Create a graph of temperature and volume data. Place temperature on the x-axis (in Kelvin) and volume (mL) on the y-axis. Insert your graph below.
2. What happened to the volume of gas when the syringe was exposed to various temperature conditions? Using the concepts explored in the Introduction, describe why this occurred, keeping in mind the definition of temperature.
3. Draw a straight line of best fit through your data points on your graph in question 1, extrapolating the line until it intersects the (negative) x-axis. Why can you assume a linear relationship (a straight-lined slope)?
4. At what temperature does your line intersect the x-axis? What volume corresponds to this temperature?

Ideal Gas Law Lab Escience Answers

Victor Andres Gonzalez

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.

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Current Index to Journals in Education ,1981 **Index Medicus** ,2001-05 Vols for 1963 include as pt 2 of the Jan issue Medical subject headings *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 gas law Guide like this It contains 51 answers much more than you can imagine comprehensive answers and extensive details and references with insights that have never before been offered in print Get the information you need fast This all embracing guide offers a thorough view of key knowledge and detailed insight This Guide introduces what you want to know about Ideal gas law A quick look inside of some of the subjects covered Atmospheric thermodynamics Overview Thermodynamic instruments Thermodynamic meters Glossary of engineering I Idealization Limits on use Perfect gas Stoichiometry Water vapor Water vapor and dry air density calculations at 0 C Equipartition theorem Perfection Physics and chemistry Glossary of chemistry terms U Fusion energy 1960s Timeline of low temperature technology 19th century Gas Avogadro s law Hot air balloon List of multiple discoveries 17th century Amount of substance Equation of state Overview Explosive Volume of products of explosion Aerodynamics Conservation laws Van der Waals equation Validity Equipartition of energy Gas Physical characteristics Gas meter Flow measurement calculations Mass flow sensor Chamber pressure Importance in Firearm Maintenance Weather forecasting How models create forecasts Timeline of hydrogen technologies 1800s Pressure Pressure of an ideal gas Compressible fluid One Dimensional Flow Diffusion Elementary theory of diffusion coefficient in gases Water vapour Water vapor and Density of airdry air density calculations at 0 C Ideal gas law Numerical weather prediction Computation Gay Lussac s law Pressure temperature law Hydrostatic equilibrium Astrophysics History of thermodynamics Birth of thermodynamics as science and much more [The Ideal Gas Law Handbook - Everything You Need to Know about Ideal Gas Law](#) Patrick Hurley,2016-04-29 This book is your ultimate Ideal gas law resource Here you will find the most up to date information facts quotes and much more In easy to read chapters with extensive references and links to get you to know all there is to know about Ideal gas law s whole picture right away Get countless Ideal gas law facts right at your fingertips with this essential resource The Ideal gas law Handbook is the single and largest Ideal gas law reference book This compendium of information is the authoritative source for all your entertainment reference and learning needs It will be your go to source for any Ideal gas law questions A mind tickling encyclopedia on Ideal gas law a treat in its entirety and an oasis of learning about what you don t yet know but are glad you found The Ideal gas law Handbook will answer all of your needs and much more *Charles' Gas Law : Video Demonstration of Experiment* Lydia Anderson,2013 **GAS LAWS** NARAYAN CHANGDER,2024-04-01 Note Anyone can request the PDF version of this practice set workbook by emailing me at cbsenet4u@gmail.com You can also get full PDF books in quiz format on our youtube channel <https://www.youtube.com/smartquiziz> I will send you a PDF version of this workbook This book has been designed for candidates preparing for various competitive

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Practical Application of the Gas Laws to Pulmonary Physiology Joan Abramson, 1981-04-01 [Aberrations from the Ideal Gas Laws in Systems of One and Two Components](#) Otto Maass, 1926

[Aberrations from the Ideal Gas Laws and a Precision Method for the Determination of the Densities of Gases](#) Douglas Le Baron Peters Cooper, 1931 **On the Definition of the Ideal Gas** Edgar Buckingham, 1911 **Williams & Meyers Oil**

and Gas Law Patrick H. Martin, Bruce M. Kramer, 2020 **The Impact of High School Students' Difficulties with Operational Definitions on Understanding the Ideal Gas Law** Victor Andres Gonzalez, 2004 [Gas Laws](#) Source

Wikipedia, 2013-09 Please note that the content of this book primarily consists of articles available from Wikipedia or other free sources online Pages 24 Chapters Acentric factor Amagat's law Avogadro's law Boyle's law Charles's law Combined gas law Compressibility factor Dalton's law Gay Lussac's law Graham's law Henry's law Magic number chemistry Partial pressure Psychrometric constant Redlich Kwong equation of state Van der Waals constants data page Van der Waals equation Excerpt The van der Waals equation is an equation of state for a fluid composed of particles that have a non zero volume and a pairwise attractive inter particle force such as the van der Waals force It was derived in 1873 by Johannes Diderik van der Waals who received the Nobel prize in 1910 for his work on the equation of state for gases and liquids The equation is based on a modification of the ideal gas law and approximates the behavior of real fluids taking into account the nonzero size of molecules and the attraction between them The van der Waals isotherms the model correctly predicts a mostly incompressible liquid phase but the oscillations in the phase transition zone do not fit experimental data The equation uses the following state variables the pressure of the fluid p total volume of the container containing the fluid V number of

moles n and absolute temperature of the system T One form of the equation is where V is the volume of the container shared between each particle not the velocity of a particle N is the total number of particles and k is Boltzmann's constant given by the universal gas constant R and Avogadro's constant N_A Extra parameters are introduced a is a measure for the attraction between the particles and b is the average volume excluded from V by a particle The equation can be cast into the better known form where a is a measure of the attraction between the particles b is the volume excluded by a mole of particles A careful distinction Oil and Gas Law in a Nutshell John S. Lowe, 2003 *Oil and Gas Law* Howard R. Williams, Charles J. Meyers, 1983 **AICHEMI Modular Instruction** David Mautner Himmelblau, 1987

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