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Problems Combined /u0026 Ideal -

Density, Molar Mass, Mole Fraction, Partial Pressure, Effusion

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Gases: The Ideal Gas Law Phase Changes:

Exothermic or

Endothermic? Partial

Pressures /u0026

Vapor Pressure:

Crash Course

Chemistry #15

Applications of the

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Mass of a Gas Gas

~~Pressure: The Basics~~

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~~Molarity Practice~~

~~Problems The ideal~~

~~gas law ( $PV = nRT$ ) |~~

~~Intermolecular forces~~

~~and properties | AP~~

~~Chemistry | Khan~~

~~Academy Ideal Gas~~

~~Law: Where did R~~

~~come from? 1.3 Solve~~

~~problems using the~~

~~ideal gas equation,  $PV$~~

~~$= nRT$  [SL IB~~

~~Chemistry] The Ideal~~

~~Gas Law: Crash~~



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Course Chemistry

#12 Example using the Ideal Gas Law to calculate moles of a gas

Ideal Gas Law

Practice Problems

with Density

Combined Gas Law

Worked example:

Using the ideal gas law to calculate a change in volume |

Khan Academy

Solving Ideal Gas Law

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## Problems (Part 1) Ideal Gas Law Problems And

In addition, mass and molecular weight will give us moles. It appears that the ideal gas law is called for. However, there is a problem. We are being asked to change the conditions to a new amount of moles and pressure.

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So, it seems like the ideal gas law needs to be used twice. 2) Let's set up two ideal gas law equations:  $P_1 V_1 = n_1 RT_1$

ChemTeam: Ideal Gas Law: Problems #1 - 10

The ideal gas law is an equation of state that describes the behavior of an ideal

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gas and also a real gas under conditions of ordinary temperature and low pressure. This is one of the most useful gas laws to know because it can be used to find pressure, volume, number of moles, or temperature of a gas. The formula for the ideal gas law is:  $PV = nRT$ .  $P$  = pressure.

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## Problems And

Ideal Gas Law

Example Problem -

ThoughtCo

The ideal gas law relates the pressure, volume, quantity, and temperature of an ideal gas. At ordinary temperatures, you can use the ideal gas law to approximate the behavior of real gases. Here are

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examples of how to use the ideal gas law. You may wish to refer to the general properties of gases to review concepts and formulae related to ideal gasses.

Ideal Gas Law:  
Worked Chemistry Problems -  
ThoughtCo  
The first step of any

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## Ideal Gas Law And

problem is to convert temperatures to the absolute temperature scale, Kelvin. At relatively low temperatures, the 273 degree difference makes a very large difference in calculations. To change  $^{\circ}\text{C}$  to K, use the formula  $T = ^{\circ}\text{C} + 273$

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## Problems And

Ideal Gas Law

Example Problem -

Science Notes and

Projects

Ideal gas law –

problems and

solutions. 1. I deal

gases in a closed

container initially

have volume  $V$  and

temperature  $T$ . The

final temperature is

$5/4T$  and the final



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pressure is  $2P$ . What is the final volume of the gas? Known :

Initial volume ( $V_1$ ) =  $V$ . Initial temperature ( $T_1$ ) =  $T$ . Final temperature ( $T_2$ ) =  $\frac{5}{4} T$ . Initial pressure ( $P_1$ ) =  $P$ . Final pressure ( $P_2$ ) =  $2P$

Ideal gas law – problems and solutions | Solved

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## Problems ... And

Answers. As

temperature of a gas increases, pressure will also increase based on the ideal gas law. The volume of the tire can only expand so much before the rubber gives and releases the build up of pressure.

7.2: The Gas Laws

*Page 18/36*

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(Problems) - Chemistry LibreTexts  
Answers

Ideal gas molecules themselves take up no volume. The gas takes up volume since the molecules expand into a large region of space, but the Ideal gas molecules are approximated as point particles that have no volume in and of themselves. If

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this sounds too ideal to be true, you're right.

What is the ideal gas law? (article) | Khan Academy

Sample problems for using the Ideal Gas Law,  $PV = nRT$

Examples: 1) 2.3 moles of Helium gas are at a pressure of 1.70 atm, and the

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temperature is  $41^{\circ}\text{C}$ .

What is the volume of the gas? 2) At a

certain temperature, 3.24 moles of  $\text{CO}_2$  gas at 2.15 atm take up a volume of

35.28L. What is this temperature (in

Celsius)? Show Step-by-step Solutions

Gas Laws (solutions, examples,

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worksheets, videos, games ...

Worked example:

Using the ideal gas law to calculate number of moles.

Worked example:

Using the ideal gas law to calculate a change in volume.

Gas mixtures and partial pressures.

Dalton's law of partial pressure. Worked

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example: Calculating partial pressures.

Calculations using the ideal gas equation (practice ...

The ideal gas law can be used in stoichiometry problems whose chemical reactions involve gases.

Standard temperature and pressure (STP)

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are a useful set of benchmark conditions to compare other properties of gases. At STP, gases have a volume of 22.4 L per mole. The ideal gas law can be used to determine densities of gases.

## 6.6: The Ideal Gas Law and Some



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## Applications - And Chemistry ...

There are in fact many different forms of the equation of state. Since the ideal gas law neglects both molecular size and inter molecular attractions, it is most accurate for monatomic gases at high temperatures and low pressures.

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The neglect of molecular size becomes less important for lower densities, i.e. for larger volumes at lower pressures, because the average distance between adjacent molecules becomes much larger than the molecular size.

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Ideal gas law - And  
Wikipedia  
Answers  
Ideal Gas Law

Problems. Ideal Gas  
Law Name

\_\_\_\_\_. 1) Given

the following sets of  
values, calculate the

unknown quantity. a)

$P = 1.01 \text{ atm}$   $V = ?$   $n =$

$0.00831 \text{ mol}$   $T =$

$25^\circ \text{C}$  b)  $P = ?$   $V =$

$0.602 \text{ L}$   $n = 0.00801$

$\text{mol}$   $T = 311 \text{ K}$  2) At

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Problems And Answers  
what temperature would 2.10 moles of  $N_2$  gas have a pressure of 1.25 atm and in a 25.0 L tank?

Ideal Gas Law

Problems - Dameln

Chemsite

This chemistry video tutorial explains how to solve ideal gas law problems using the formula  $PV=nRT$ . This

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video contains plenty of examples and practice prob...

Ideal Gas Law  
Practice Problems -  
YouTube

Ideal Gas Law  
Problems 1) How many molecules are there in 985 mL of nitrogen at  $0.0^{\circ}\text{C}$  and  $1.00 \times 10^{-6}\text{mm Hg}$ ? 2) Calculate the

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mass of 15.0 L of  
 $\text{NH}_3$  at  $27^\circ\text{C}$  and  
900. mm Hg. 3) An  
empty flask has a  
mass of 47.392 g and  
47.816 g when filled  
with acetone vapor at  
 $100^\circ\text{C}$  and 745 mm  
Hg.

Ideal Gas Law  
Problems -  
mmsphyschem.com  
To see all my

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Chemistry videos, check out <http://socratic.org/chemistry>  
Sample problems for using the Ideal Gas Law,  $PV=nRT$ . I do two examples here of basic ...

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Practice Problems -  
YouTube  
The relationship  
which connects the

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above four domain properties like mass, volume, pressure, temperatures is known as the equation of state or ideal gas law for gas molecules. Solutions to ideal gas law quiz questions provide for the calculation of pressure, volume, molar mass, kinetic energy, and density of



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the gas from ideal gas equations.

Ideal Gas Law

Problems Solutions |  
Chemistry ...

Problem #13:

Calculate the volume  
3.00 moles of a gas  
will occupy at 24.0  
° C and 762.4 mm

Hg. Solution:

Rearrange the Ideal  
Gas Law to this:  $V =$

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nRT / P. Substitute values into the equation:  $V = [(3.00 \text{ mol}) (0.08206 \text{ L atm mol}^{-1} \text{ K}^{-1}) (297.0 \text{ K})] / (762.4 \text{ mmHg} / 760.0 \text{ mmHg atm}^{-1})$   
Note the conversion from mmHg to atm in the denominator.

ChemTeam: Ideal Gas Law: Problems #11 - 25

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The ideal gas law can be used in stoichiometry problems in which chemical reactions involve gases.

Standard temperature and pressure (STP) are a useful set of benchmark conditions to compare other properties of gases.

At STP, gases have a

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Problems And Answers  
volume of 22.4 L per mole. The ideal gas law can be used to determine densities of gases.

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