

## Behavior Of Gases Review 2 Answers

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### Behavior Of Gases Review 2

SECTION 2 BEHAVIOR OF GASES 1. a measure of how fast the particles of an object are moving 2. when it is heated 3. Temperature of gas particles Energy of gas particles Volume of gas particles 1) 20°C Particles have the smallest amount of energy. Volume is smallest. 2) 50°C Particles have more energy than at 20°C, but not as much as at 80°C.

### CHAPTER States of Matter SECTION 2 Behavior of Gases

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Non-Ideal Behavior of Gas. The ideal gas law has a limited precision for predicting the properties of gases. The imprecision is known as the non-ideal behavior of gas, and the van der Waals equation.  $(P + n^2a/V^2)(V - nb) = nRT$ . has been introduced to deal with non-ideal behavior of gases in Ideal gas law.

### Gases - A Review - Chemistry LibreTexts

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The behavior of gases is explained by what scientists call the Kinetic Molecular Theory. According to this theory, all matter is made of constantly moving atoms or molecules. Because of their mass and velocity, they possess kinetic energy,  $(K.E. = 1/2mv)$ . The molecules collide with one another and with the sides of the container.

### The Theories and Behavior of Gas | Owlcation

BEHAVIOR OF GASES REVIEW Page 102 Chemistry Unit Assessment 2007 Baltimore County Public Schools 11. Calculate the new temperature of a

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gas when 1500 mL at 25°C is suddenly compressed to 500 mL. Charles' Law  $K \text{ mL} / K \text{ mL} = V / V$   $100 (1500) / (298) = (500) / 1$   $1 \cdot 1 \cdot 2 \cdot 2 \cdot 12$ . A flask contains 34.6 kPa of CO<sub>2</sub>

### Student Review Packet Answer Key

A gas is a state of matter with no defined shape or volume. Gases have their own unique behavior depending on a variety of variables, such as temperature, pressure, and volume. While each gas is different, all gases act in a similar manner. This study guide highlights the concepts and laws dealing with the chemistry of gases.

### Chemistry Study Guide for Gases - ThoughtCo

SECTION 2-1 Date Class REVIEW AND REINFORCE Salad Oil Oxen Solids, Liquids, and Gases Understanding Main Ideas Use the diagram to answer Questions 1 through 3. Write your answers on a separate sheet of paper. 1. Identify the physical state of the substances pictured. 2. What would happen to the shape of each

### Solids, Liquids, and Gases

Gases \*Gases have no definite shape nor volume. Particles spread out to fill the shape of the container and the space available. Section 2 (Changes in State) \*melting is a change from a solid to a liquid.

### Chapter 2 Solids, Liquids and Gases Name Section 1 (States ...

A) Gases are highly compressible. B) Distances between molecules of gas are very large compared to bond distances within molecules. C) Non-reacting gas mixtures are homogeneous. D) Gases expand spontaneously to fill the container they are placed in. E) All gases are colorless and odorless at room temperature.

### Chemistry of Gases - Multiple Choice Questions Review ...

Gases are composed of tiny particles that are separated by large distances. Gas particles are constantly moving, experiencing collisions with other gas particles and the walls of their container. The velocity of gas particles is related to the temperature of a gas.

### 8.3 Gases and Pressure - Chemistry LibreTexts

The theory that explains the behavior of gases at the molecular level is called the kinetic molecular theory which is based on assumptions about a theoretical gas often referred to as an ideal gas. 2. Gases deviate most from ideal gas behavior under conditions of very low ... Microsoft Word - 9-05a,b Episode 901 Review wkst-Key .doc

### 9-05a,b Episode 901 Review wkst-Key

The molecules of a gas in a closed container, such as a balloon, are not only constantly moving. They are also constantly bumping into each other and into the sides of their container. The sketch in Figure below shows how this happens. The force of the particles against whatever they bump into creates pressure.

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Learn about the behavior of gas, derive gas law equations, and practice calculations in this episode of Teacher's Pet (TM).

### **Gases and Gas Laws**

Solids, Liquids, and Gases Review and Reinforce Graphing Gas Behavior Understanding Main Ideas Table A Relationship of Temperature and Volume of an Amount of Gas at Constant Pressure Graph A Graph B Temperature (K) 200 250 300 350 Table B Volume (cm<sup>3</sup>) 40 50 60 70 100 200 300 Temperature (K) 180 160 140 0\_ 120 100 80 60 40 20

### **www.basd.net**

If the number of particles increases in a given volume, more collisions occur. If the average kinetic energy of the particles increases, more collisions occur. In both cases, the pressure increases. Gas pressure depends only on the number of particles in a given volume and on their average kinetic energy.

### **14.4 Gases: Mixtures and Movements**

Chapter 14- Behavior of Gases Basics: Notes, Review Quiz (Prentice Hall) Quizzes, Tutorials, Simulations-Gas Properties, The Greenhouse Effect, Ballons and Buoyancy, States of Matter Applications: Air Bags, Improving Air Quality, Acid Rain Virtual ChemLab- 3 Gas Law Labs

### **Chemistry I - Mr. Benjamin's Classroom**

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