

12

THE BEHAVIOR OF GASES

Conceptual Curriculum

- Concrete concepts
- More abstract concepts or math/problem-solving

Standard Curriculum

- Core content
- Extension topics

Honors Curriculum

- ◆ Core honors content
- ◇ Options to accelerate

SECTION 12.1 THE PROPERTIES OF GASES (pages 327–328)



This section describes the properties of gas particles and explains how the kinetic energy of gas particles relates to Kelvin temperature.

► Kinetic Theory Revisited (pages 327–328)

- What theory explains the behavior of gases with respect to conditions such as temperature and pressure? kinetic theory
- If you notice that a sealed bag of potato chips bulges when placed near a sunny window, what can you hypothesize about the relationship between the temperature and pressure of an enclosed gas?
An increase in temperature causes an increase in the pressure exerted by the gas.
- List three basic assumptions of the kinetic theory about the properties of gases.
 - Gas particles are so small in relation to the distances between them that their individual volumes can be assumed to be insignificant.
 - No attractive or repulsive forces exist between gas particles.
 - Gas particles are in constant random motion, traveling in independent straight paths until they collide with each other or other objects.
- Circle the letter next to each sentence that is true concerning the compressibility of gases.
 - ☒ The large relative distances between gas particles means that there is considerable empty space between them.
 - ☒ The assumption that gas particles are far apart explains gas compressibility.
 - ☒ Compressibility is a measure of how much the volume of matter decreases under pressure.
 - ☐ Energy is released by a gas when it is compressed.
- Look at Figure 12.1 on page 327. How does an automobile air bag protect the crash dummy from being broken as a result of impact?
The gases used to inflate the airbag are compressible and are able to absorb a considerable amount of energy.

Behavior Of Gases Worksheet Answers

Katrin Zwirgmaier



Behavior Of Gases Worksheet Answers:

Teacher's Guide for Gases and "airs" Elementary Science Study (Education Development Center),1987 Building Block
Prentice-Hall Staff,1994 **Exploring Ecology** Patricia Warren,Janet Galle,2005 Designed specifically for easy use
Exploring Ecology combines content with activities all in one place and organized into four clear sections Although the book
is targeted to teachers of science in grades 4 8 many activities have been adapted for students ranging from first grade to
high school **Biology** ,1999 **Work Jerks** Louise Carnachan,2025-07-30 If you re stressed and unhappy because of
problems with a boss or colleague you pay a price Not only can your mental and physical health suffer your nearest and
dearest get sick of hearing about it Going to bed angry and waking up only to dread a new workday is a terrible way to live
Remote work may have lessened the impact of annoying colleagues for a while but they can still find ways to irritate If you re
co located the mute and stop video buttons don t exist to diminish your exasperation Not all jerks are the same the person
you find to be a nightmare may be perfectly acceptable to others And astonishingly someone else may even think you re the
jerk Author Louise Carnachan has the credentials and experience to make her an expert in this area but more importantly
she s been in the trenches herself With an emphasis on the positive actions you can take while being attentive to your
specific situation Work Jerks provides practical advice on how to deal with a variety of problematic coworkers whether in
person or remotely so work can stop being something you dread and start being something you enjoy *Survey of*
Astronomy Parent Lesson Plan ,2013-10-01 Course Description Taking Back Astronomy Take a breathtaking look at the
universe in this comprehensive guide to the heavens Sit back and explore the world at your fingertips This book explains the
scale and size of the universe that is hard for our minds to imagine yet can only indicate the Master s hand at work Marvel at
over 50 full color rarely seen photos of stars nebulae and galaxies Study the facts that challenge secular theories and models
of the universe how it began and how it continues to amaze the scientific community Explore numerous evidences that point
to a young universe magnetic poles of planets the spiral shape of galaxies comets and how long scientists think they can last
and much more Step out among the stars and experience the truly awesome power of God through this glimpse of His vast
creation Our Created Moon For eons the moon has intrigued humanity From its creation through the current issues of space
exploration the moon has been both a light in the night and a protective shield of earth placed perfectly by God regulating
our seasons and keeping our atmosphere purified Billions of dollars have been spent to reach its surface and discover its
secrets open these pages and discover those secrets for yourself The Stargazer s Guide to the Night Sky Explore the night
sky identify stars constellations and even planets Stargaze with a telescope binoculars or even your naked eye Allow Dr Jason
Lisle a research scientist with a masters and PhD in astrophysics to guide you in examining the beauty of God s Creation with
150 full color star charts Learn the best ways and optimal times to observe planets and stars with easy to use illustrations
Create or expand the hobby of stargazing an outdoor educational hobby to enjoy with friends or family Our Created Moon

DVD In this illustrated presentation Dr Don DeYoung looks at four of the most popular ideas evolutionists have to offer regarding the moon's origin and logically concludes that this lesser light could only have been placed in its orbit by an all knowing all powerful Creator Created Cosmos DVD Our universe is truly an amazing thing The vastness of space boggles the mind and the beauty of diversity we find there points to a Creator The Psalmist wrote When I consider Your heavens the work of Your fingers the moon and the stars which You have ordained what is man that You are mindful of him and the Son of man that You visit him Take a tour through the universe during this awe inspiring presentation Popular Mechanics, 2000-01 Popular Mechanics inspires instructs and influences readers to help them master the modern world Whether it's practical DIY home improvement tips gadgets and digital technology information on the newest cars or the latest breakthroughs in science PM is the ultimate guide to our high tech lifestyle **Exploring Space (ENHANCED eBook)** Edward P. Ortleb, Richard Cadice, 1986-09-01 The exciting discoveries of recent space explorations are described in this book which deals with rockets space probes and space stations The scientific exploration of our solar system and beyond is described Each of the twelve teaching units in this book is introduced by a color transparency print books or PowerPoint slide eBooks that emphasizes the basic concept of the unit and presents questions for discussion Reproducible student pages provide reinforcement and follow up activities The teaching guide offers descriptions of the basic concepts to be presented background information suggestions for enrichment activities and a complete answer key **Merrill Chemistry** Robert C. Smoot, Smoot, Richard G. Smith, Jack Price, 1998 **Creating the Conditions for Teaching and Learning** David Hopkins, Alma Harris, 2013-12-19 First Published in 2001 This handbook arising out of IQEA project Improving the Quality of Education for All focuses on a basic repertoire of teaching and learning strategies and a series of activities designed to help teachers extend and deepen their range of teaching skills The authors set out for CPD tutors ways of bringing research evidence and critical self reflection to bear on practice in the pursuit of confident teaching and effective learning The goal is to locate and unleash the full potential of individual teachers through evidence selection and variety rather than to impose pre determined notions or models of teaching and learning regardless of the relevance to particular groups of students and their teachers

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