

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.

Gases Section Short Answers

Xiaolong Qi

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the name bar.

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