

Directed Reading A

Section: Behavior of Gases

DESCRIBING GAS BEHAVIOR

- _____ 1. What state of matter is helium?
- a. solid
 - b. liquid
 - c. gas
 - d. plasma
2. A measure of how fast the particles in an object are moving is the _____.
3. Why is more gas needed to fill helium balloons on a cold day?
- _____
- _____
- _____
4. The amount of space that an object takes up is the _____.
5. The volume of any gas depends upon the size of the _____.
6. The amount of force exerted on a given area is called _____.
7. Why does the basketball have greater pressure than the beachball?
- _____
- _____
- _____
- _____

GAS BEHAVIOR LAWS

- _____ 8. Lifting a piston on a cylinder of gas shows that when the pressure of the gas
- a. increases, the temperature increases.
 - b. decreases, the volume increases.
 - c. decreases, the volume decreases.
 - d. increases, the volume increases.

Directed Reading A *continued*

- _____ 9. All of the following remain constant for Charles's law EXCEPT
- a. the type of piston.
 - b. the amount of gas.
 - c. the volume of the gas.
 - d. the pressure.

10. The relationship between the volume and pressure of a gas is called

11. Weather balloons are only partially inflated before they're released into the atmosphere. Why is that?

12. Putting a balloon in the freezer is one way to demonstrate

13. The relationship between the volume and the temperature of a gas when pressure remains constant is known as _____