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CONCEPTUAL PAUSICS PRACTICE PAGE

Chapter 14 Gases Gas Pressure

1. A principle difference between a liquid and a gas is that when a liquid is under pressure, its volume

[increases] [decreases] [doesn't change noticeably] and its density

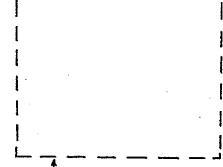
[increases] [decrease] [doesn't change noticeably].

When a gas is under pressure, its volume

[increases] [decreases] [doesn't change noticeably] and its density

[increases] [decreases] [doesn't change noticeably].

2. The sketch below shows the launching of a weather balloon at sea level. Make a sketch of the same weather balloon when it is high in the atmosphere. In words, what is different about its size and why?



HIGH-ALTITUDE SIZE



GROUND-LEVEL SIZE

- 3. A hydrogen-filled balloon that weighs 10 N must displace ______ N of air in order to float in air. If it displaces less than _____ N, it will be buoyed up with less than _____ N and sink. If it displaces more than _____ N of air, it will move upward.
- 4. Why is the cartoon more humorous to physics types than to non-physics types? What physics concept has occurred?



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CONCEPTUAL Physics PRACTICE PAGE

Tinkering is the process of "nosing" your way toward a solution to something you don't quite know how to do— a combination of discovery and play.

