

**Chapter 13 Liquids**  
**Archimedes' Principle I**

1. Consider a balloon filled with 1 liter of water ( $1000 \text{ cm}^3$ ) in equilibrium in a container of water, as shown in Figure 1.

a. What is the mass of the 1 liter of water?

\_\_\_\_\_

b. What is the weight of the 1 liter of water?

\_\_\_\_\_

c. What is the weight of water displaced by the balloon?

\_\_\_\_\_

d. What is the buoyant force on the balloon?

\_\_\_\_\_

e. Sketch a pair of vectors in Figure 1:  
one for the weight of the balloon and the  
other for the buoyant force that acts on it.  
How do the size and directions of your vectors compare?

\_\_\_\_\_

$1000 \text{ cm}^3$



Figure 1

WATER DOES NOT  
SINK IN WATER!



2. As a thought experiment, pretend we could remove the water from the balloon but still have it remain the same size of 1 liter. Then inside the balloon is a vacuum.

a. What is the mass of the liter of nothing?

\_\_\_\_\_

b. What is the weight of the liter of nothing?

\_\_\_\_\_

c. What is the weight of water displaced by  
the nearly massless 1-liter balloon?

\_\_\_\_\_

d. What is the buoyant force on the  
nearly massless balloon?

\_\_\_\_\_

e. In which direction would the nearly massless balloon be accelerated?

\_\_\_\_\_

ANYTHING THAT DISPLACES  
10 N OF WATER EXPERIENCES  
10 N OF BUOYANT FORCE.



CUZ IF YOU PUSH 10 N OF WATER ASIDE  
THE WATER PUSHES BACK ON YOU WITH 10 N!



# Conceptual Physics Practice Page Answers Liquids

**Patrick Vollmar**



## **Conceptual Physics Practice Page Answers Liquids:**

## Reviewing **Conceptual Physics Practice Page Answers Liquids**: Unlocking the Spellbinding Force of Linguistics

In a fast-paced world fueled by information and interconnectivity, the spellbinding force of linguistics has acquired newfound prominence. Its capacity to evoke emotions, stimulate contemplation, and stimulate metamorphosis is actually astonishing. Within the pages of "**Conceptual Physics Practice Page Answers Liquids**," an enthralling opus penned by a highly acclaimed wordsmith, readers attempt an immersive expedition to unravel the intricate significance of language and its indelible imprint on our lives. Throughout this assessment, we shall delve in to the book is central motifs, appraise its distinctive narrative style, and gauge its overarching influence on the minds of its readers.

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