

Name: \_\_\_\_\_

Period: \_\_\_\_\_ Date: \_\_\_\_\_

**GIANCOLI READING ACTIVITY**

**Section 10-1 to 10-2**

1. Objectives for Lsn 10-1, Density And Specific Gravity and Lsn 10-2, Density and Specific Gravity:

- a. Name the four states of matter.
- b. Describe the characteristics that differentiate the four states of matter.
- c. Define density.
- d. Solve problems involving density.
- e. Define specific gravity.
- f. Determine the specific gravity of a given substance.

2. Read sections 10-1 to 10-2 in your textbook.

3. Define the following terms:

- a. states (or phases) of matter \_\_\_\_\_  
\_\_\_\_\_
- b. solid \_\_\_\_\_  
\_\_\_\_\_
- c. liquid \_\_\_\_\_  
\_\_\_\_\_
- d. gas \_\_\_\_\_  
\_\_\_\_\_
- e. fluid \_\_\_\_\_  
\_\_\_\_\_
- f. density \_\_\_\_\_  
\_\_\_\_\_
- g. specific gravity \_\_\_\_\_  
\_\_\_\_\_

4. Answer the following questions:

- a. Complete the chart below using characteristics of the three states of matter (I know it's not a question, so humor me already)

	<b>Solid</b>	<b>Liquid</b>	<b>Gas</b>
Shape			
Compressibility			

- b. Why are liquids and gases collectively called fluids? \_\_\_\_\_  
 \_\_\_\_\_
- c. Is iron heavier than wood? *Yes / No / It depends on how much you have of each (choose one)*
- d. Given equal volumes of both, is the iron heavier than the wood? *Yes / No / It depends on how much you have of each (choose one)* Explain. \_\_\_\_\_  
 \_\_\_\_\_
- e. What is the SI unit for density? \_\_\_\_\_
- f. What is an equation for the weight of an object using density and volume? \_\_\_\_\_
- g. What is the relationship between specific gravity and density? (be specific, don't be dense) \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_
- h. What is the specific gravity for:  
 mercury \_\_\_\_\_  
 ethyl alcohol \_\_\_\_\_  
 gasoline \_\_\_\_\_
5. This assignment may be typed or neatly printed. Drawings may be freehand, but try to make use of the 'Shapes' or 'Insert Clipart' functions of MS Word. If you submit this assignment electronically, the filename must be in the following format, "LastnameFirstinitialPerXReadActX-X". You *do not* need include a copy of these instructions with the assignment you hand in.