

Chapter 3

SCIENTIFIC MEASUREMENT

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Exploring Density

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Accuracy and Precision


CHEMmath
What Is an Equation?


CHEMISTRY SERVING... THE CONSUMER
These Standards Are Worth the Weight

CHEMISTRY IN CAREERS
Analytical Chemist

LINK TO ART
Measurement and Art

LINK TO ENGINEERING
Computer-Aided Design

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<http://www.chemsurf.com>



DISCOVER IT! EXPLORING DENSITY

You need three beakers, a graduated cylinder, a colorless cylindrical glass or plastic container, shampoo, water, rubbing alcohol, red food coloring, a medicine dropper, a spoon or stirring rod, and small solid objects (such as a paper clip, plastic soda-bottle cap, chalk, ball of aluminum foil, aluminum nail, piece of uncooked pasta, dried bean, or piece of cork).

1. Pour about 250 mL each of shampoo, water, and rubbing alcohol into separate beakers.
2. Stir a drop of food coloring into the rubbing alcohol and the shampoo.
3. Carefully pour each liquid (in the following order: shampoo, water, rubbing alcohol) down the inside of the colorless cylindrical container to a depth of 2.5 cm (about 1 in.).
4. Record the positions of the three layers of liquids.
5. Gently add each small solid object to the layered liquids and record its resting location.

Propose an explanation for the order of layering of the liquids. Do you think it would make any difference if you added the liquids in a different order? Why or why not? After completing this chapter, reevaluate your explanation and revise it if necessary.

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CHAPTER 3, Scientific Measurement(continued) Scientific Notation (pages 52-53) 10. Look at Figure 3.3 on page 52. Why are numbers used in chemistry usually expressed in scientific notation? 11. Circle the letter of each sentence that is true about numbers expressed in scientific notation. a. A number expressed in scientific notation is written as the product of a coefficient and a power of ...

3 SCIENTIFIC MEASUREMENT - blogs

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Chapter 3 " Scientific Measurement " Charles Page High School Pre-AP Chemistry Stephen L. Cotton 2. Section 3.1 Measurements and Their Uncertainty OBJECTIVES: Convert measurements to scientific notation. 3.

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