

Exploring Chemistry Language

Purpose: To learn/review chemistry vocabulary

Materials: Balance, Ruler, Graduated Cylinder, gray block, white block, black block, shiny heavier cylinder, matte finish lighter cylinder

Procedure: Using the materials on the list above, find answers to the questions below:

Questions:

_____ 1. Which material contains the most matter? Record Data Below

	Black block	Gray Block	White Block	Shiny Cylinder	Matte Cylinder
MASS	<u>101.48</u>	<u>79.47</u>	<u>44.83</u>	<u>44.33</u>	<u>14.23</u>

_____ 2. What did you use to find out?

_____ 3. What is the unit used to describe how much matter is in something?

_____ 4. What is another name (not the unit) for the quantity of matter?

_____ 5. Which object occupies the most space? You will need data. Record it below.

	Black block	Gray Block	White Block	Shiny Cylinder	Matte Cylinder
Length	<u>2.5 cm</u>	<u>1.2 cm</u>	<u>1.2 cm</u>	<u>x</u>	<u>x</u>
Width	<u>5.3 cm</u>	<u>6.5 cm</u>	<u>6.9 cm</u>	<u>x</u>	<u>x</u>
Height	<u>7.8 cm</u>	<u>7.1 cm</u>	<u>9.5 cm</u>	<u>x</u>	<u>x</u>
Initial Volume	<u>x</u>	<u>x</u>	<u>x</u>	<u>30 ml</u>	<u>30 ml</u>
Final Volume	<u>x</u>	<u>x</u>	<u>x</u>	<u>35 ml</u>	<u>35 ml</u>
Volume	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>

_____ 6. What are the two units of volume used in this lab?

_____ 7. Is any of the data collected so far, a unique property of any of the objects?

8. For each object, find the ratio of MASS to Volume

	Black block	Gray Block	White Block	Shiny Cylinder	Matte Cylinder
RATIO of MASS/VOLUME	_____	_____	_____	_____	_____

_____ 9. What is another name for the ratio?

_____ 10. What are the units of the ratio? There are two answers.

_____ 11. How does a ml compare to a cm^3 ?

_____ 12. Can the ratio(density) be used as a way to identify something that is "pure?" (pure means having a single identity)

13. List something that you wondered about during the lab.

14. List SIX vocabulary words you think might be associated with this lab.