

Name _____

Period _____

Date _____

UNIT | HANDOUT
2 | _____

Density Lab 1

Purpose: To determine if density is consistent for pure substances.

Reflect: Answer the following questions to help you prepare for this activity.

1. What is mass? _____
2. What is volume? _____
3. What is density? _____
4. What is the equation for density? _____
5. What is the unit for density (solid)? _____

Procedure: As a class, write a procedure for this activity. The goal of this activity is to find the density of solid prisms. You will have the following materials: prisms, digital scales and rulers.

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Data: Record your data in this section. What data will you collect? Will it be qualitative or quantitative? Will it be displayed in a table? If so, which type of graph will be best to visualize your data?

Note: any graphs for the data will be done on a separate sheet of paper!

Analysis and Conclusion: Answer the following questions to help you understand the lab activity.

1. Each of the prisms you measured was made of the same pure substance.
 - a. As the volume increases, what happens to the mass of the object?

 - b. As the mass increases, what happens to the volume of the object?

2. As both the mass and volume increased, what happens to the density of the object? _____
3. You take the prism and cut it in half. Predict what would happen to:
 - a. the volume: _____
 - b. the mass: _____
 - c. the density: _____
4. Summarize this lab by completing the following conclusion paragraph.

In this activity, an experiment was done to test how mass and volume of an object affect the object's density. The _____ and _____ of each prism were measured using a ruler and a digital scale. The _____ of each prism was calculated by dividing the _____ by the _____. The result was that when the mass and volume increase or decrease together, the density _____.