

Names _____
Hour _____ Date _____

9th Grade Physical Science Test

_____ Points

Sample Number _____

Directions:

1. You are given the task to develop an experiment that will be able to complete the given data table that is included.
2. You are to perform the lab with the materials given.
3. When you completed the lab you are to make a graph showing your Trials vs. Densities.

Title:

Problem:

Materials:

<input type="checkbox"/> _____	<input type="checkbox"/> _____	<input type="checkbox"/> _____
<input type="checkbox"/> _____	<input type="checkbox"/> _____	<input type="checkbox"/> _____
<input type="checkbox"/> _____	<input type="checkbox"/> _____	<input type="checkbox"/> _____

Procedure:

- 1) Mass _____
- 2) Measure and Record the Volume of the _____.
- 3) Measure and Record the Volume of the _____.
- 4) _____
- 5) _____
- 6) _____

Names_____

Hour_____Date_____

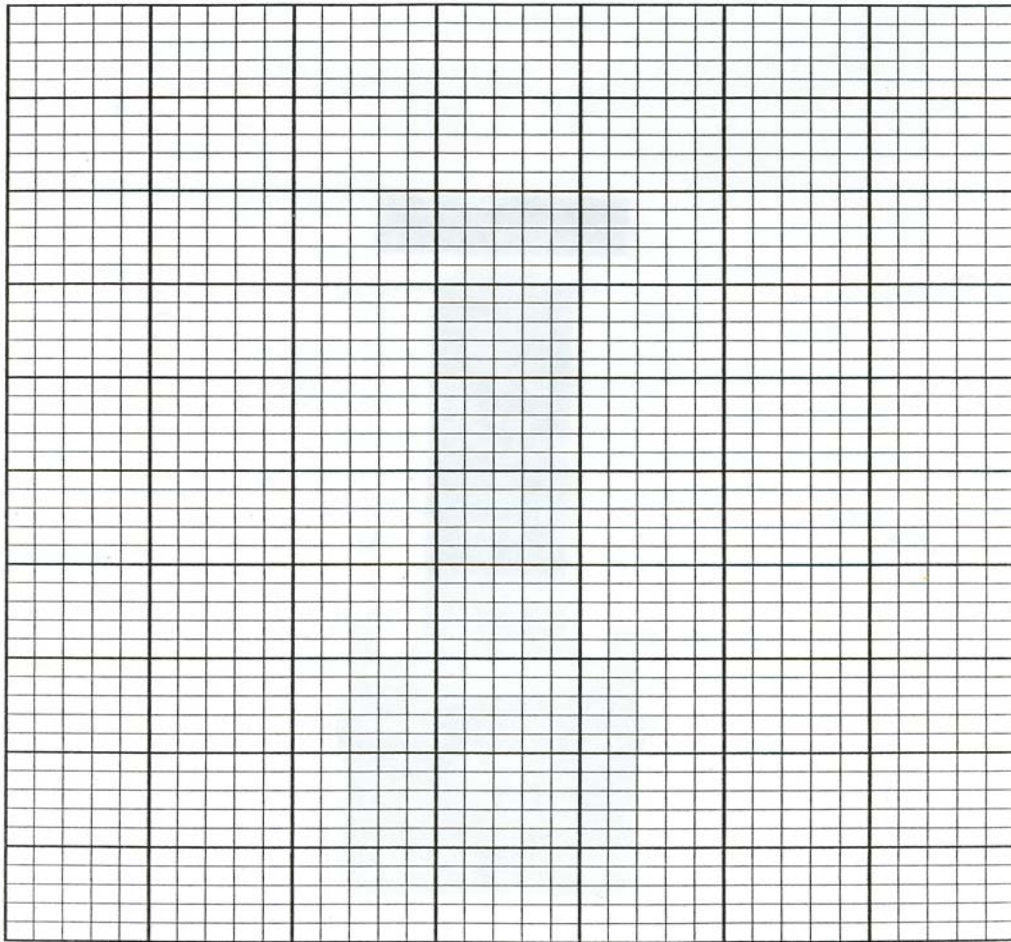
Data Collection and Interpretation:

If the amount of objects is too small to obtain a noticeable difference in volume, use more of the substance.

Data Table:

<u>Trial #</u>	<u>Mass of sample (g)</u>	<u>Volume of H₂O & Object (ml)</u>	<u>Volume of H₂O (ml)</u>	<u>Volume Object (ml)</u>	<u>Density (g/cm³)</u>
1.					
2.					
3.					
4.					
5.					

Graph:



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Sample Calculations:

You need to show 2, two, sample calculations

****Remember 1pt –Equation, 1pt – Numbers, 1pt –Answer****

Conclusion – Remember: Use complete sentences, explain your answer!

1. Did the density work out the same for all of the trials?
2. Calculate the AVERAGE DENSITY for the trials performed. **!!SHOW YOUR WORK!!**
3. Does the Average Density calculated in #2 reflect the density shown on your graph?
4. Compare your results with the graph provided by the teacher. Use your results to determine what substance you have. Write the name of the substance and the sample number here.

Sample Number _____ **Substance Name** _____

5. Write/Print LEGIBLY a paragraph on how you felt this Lab Test went. Tell about any problems encountered. *Anything that went well* Who did what* how you worked as a group*