**STEM: Density Experiments**

Week of Nov 1st - Online Learning





**Follow-Up Assignment**

**Question 1:** You just completed a science experiment with different liquids and products. In this short assignment your goal is to reflect on concepts such as density and mass by answering a few questions.

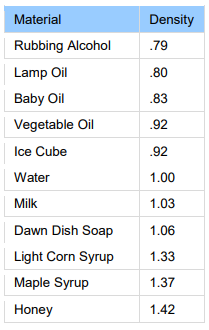
**Outrageous Ooze:** would you classify this substance as a liquid or a solid? (think about it;s properties). (2-3 sentences

**Floating Stick Man:** explain why the ink from the dry-erase marker floated instead of dissolved? (2-3 sentences

**Seven-Layer Liquid Experiment:** explain why the different liquids in our experiment did not mix (2-3 sentences)

Using the information below to help answer the review questions.

Use the following information to help with the quiz:



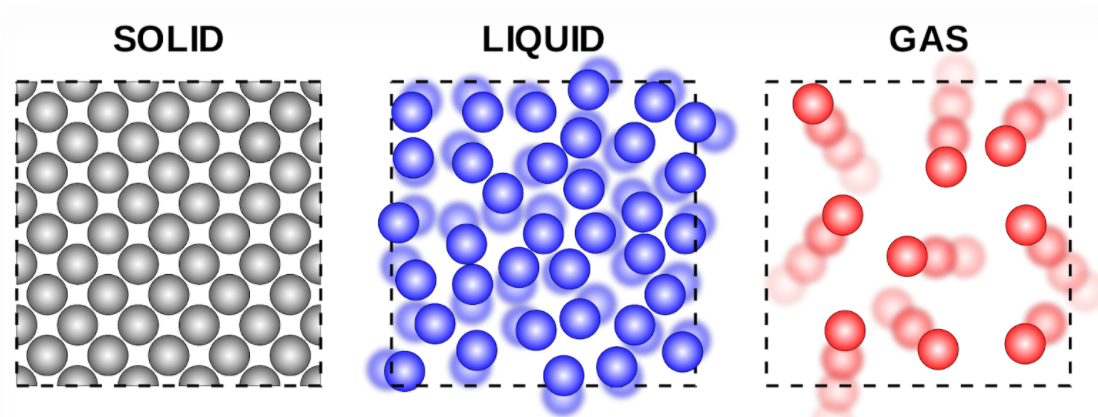
Density: **Density** is a **measurement** that compares the amount of **matter** an object has to its **volume.** An object with much matter in a certain volume has high density. An object with little matter in the same amount of volume has a low density. Density is found by dividing the **mass** of an object by its **volume.**

Matter: **Matter** is everything around you. Atoms and compounds are all very small parts that make up **matter**. **Matter** is defined as anything that has mass and takes up space (it has volume).

Volume: **Volume** refers to the amount of space the object takes up. In other words, **volume** is a measure of the size of an object, just like height and width are ways to describe size.

Mass: is the amount of **matter** or substance that makes up an object.

Changes in Density: In general, density can be changed by changing either the **pressure** or the **temperature**. Increasing the pressure always increases the density of a material. Increasing the temperature usually lowers the density.

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Your response to question 1: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Answer the following questions:**

**Bold or highlight the answers**

**1. Matter is everything that has mass and takes up**

a) density

b) volume

c) solution

**2. Solids are more dense than liquids**

a) true

b) false

c) I don’t know

**3. Volume measures the \_\_\_\_\_\_\_\_\_ of object**

a) size

b) matter

c) solution

**4. Choose the best answer to this sentence. “Matter consists of \_\_\_\_\_\_\_\_\_\_\_”**

a) solids and liquids.

b) solids, liquids, and gases.

c) solid, liquid, gases and solutions.

**5. The amount of matter or substance that makes up an object.**

a) solution

b) mass

c) volume