

# Results of Experiments 1 and 2

Print Double-Sided



## Question 1.

Circle the correct answers to complete the following text about Experiments 1 and 2. For the last sentence, fill in the blank with the missing word.

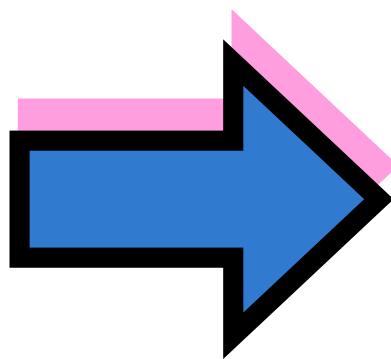
Experiment 1 showed that [mass / volume] determines the order in which liquids of [equal mass / equal volume] form layers.

Experiment 2 showed that [mass / volume] determines the order in which liquids of [equal mass / equal volume] form layers.

Considering the results of both experiments, it is true that [only mass / only volume / both mass and volume] will determine the order in which liquids form layers.

The property comprising both these properties of matter is called

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# Density and Buoyancy

Density is a property of matter. It involves both the mass and volume of a substance. It is measured in grams per millilitre (g/mL).

## Definition

**Density** is the amount of matter within a given space.

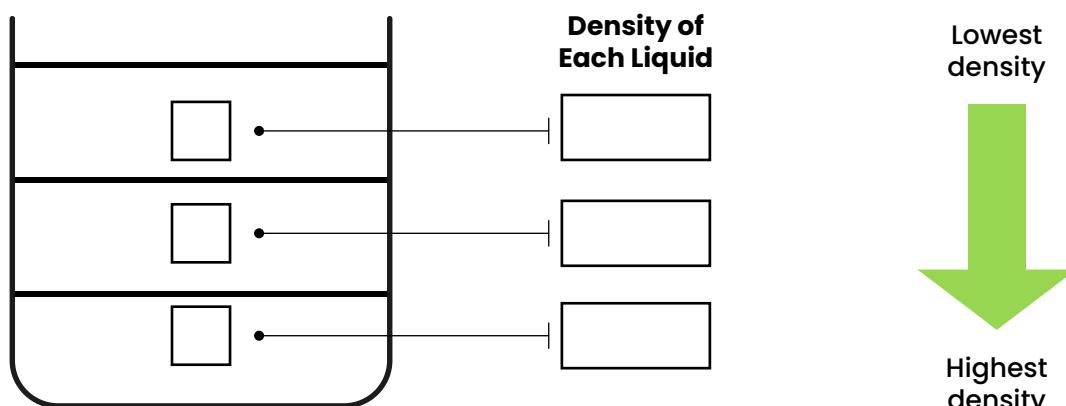
Since density indicates a substance's buoyancy, it explains how the three liquids in the experiment formed layers.

## Definition

**Buoyancy** is the ability of a substance to float or sink.

## Question 2.

Complete the following diagram by identifying each liquid and its density.



## Question 3.

Liquid [A / B / C] has the **lowest** density.

It is therefore **on top** in the mixture.

The density of liquid [A / B / C] is **in between** the density of the other two liquids. It is therefore **in the middle** of the mixture.

Liquid [A / B / C] has the **highest** density.

It is therefore **at the bottom** of the mixture.

