

QUESTION:

What is the density of tap water?

CLAIM:

The density of tap water is about 1 g/mL (acceptable range = 0.95 g/mL to 1.05 g/mL).

EVIDENCE:

Your data will vary, but the evidence should include a data table similar to the one below and one or two sentences explaining your data (patterns/relationships).

Volume of Sample (mL)	Mass of Sample (g)	Density of Sample $d = \frac{m}{V}$
AVERAGE		

JUSTIFICATION:

Density is a measure of how tightly packed the particles are in a substance. It compares the amount of matter (mass) to the amount of space it takes up (volume), and is calculated with the equation:

$$d = \frac{m}{V}$$

where "d" is density, "m" is mass, and "V" is volume.

Because density is a physical property, it is independent of the sample size, meaning that a large sample and a small sample of the same substance will have the same density.

Mass is a measure of the amount of matter in an object. It is usually measured in grams (g).

Volume is a measure of how much space an object takes up. It is usually measured in milliliters (mL) for liquids.

The density of water is 1 g/mL.

Name: _____
Pd: _____
Ast: _____