SNC1D Density

Density - Examples

Name:	Date:
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Follow along with the *video tutorial* to complete this sheet:

https://youtu.be/2oOl-yYf5Ew



Density is a measure of the amount of mass in a certain volume. This quantitative physical property is often used to identify and classify substances. It is usually expressed in grams per cubic centimeters, or g/cm³. The chart on the right lists the densities of some common materials.

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

Conversion: $1 ml = 1 cm^3$

Substance	Density (g/cm ³)
Gold	19.3
Mercury	13.5
Lead	11.4
Iron	7.87
Aluminum	3.7
Bone	1.7-2.0

1. A block of gold occupies a volume of 1.3 mL and has a mass of 25.1 g. Calculate the density of gold?

2. Mercury metal is poured into a graduated cylinder that holds exactly 22.5 mL. Using the table above calculate the mass of the mercury.

