

Metal Identification Lab

Purpose: To determine the identities of three metals using an INTENSIVE physical property called density.

Materials: Metals, graduated cylinders, water, balance.

Relevant Information: Density of Al = 2.70 g/cm^3 Density of Zn = 7.14 g/cm^3
Density of Fe = 7.87 g/cm^3

RAW Data:

Object	Mass of object	Initial Volume	Final Volume
<u>Bolt</u>	<u>52.2 g</u>	<u>35.0 ml</u>	<u>41.5ml</u>
<u>Metal Strip</u>	<u>7.2 g</u>	<u>35.0 ml</u>	<u>36.0 ml</u>
<u>Metal cylinder</u>	<u>12.2 g</u>	<u>16.4 ml</u>	<u>20.8 ml</u>

DERIVED Data SHOW WORK

Object	Volume of object	Density of object
_____	_____	_____
_____	_____	_____
_____	_____	_____

The bolt is made of _____

The sheet of metal is made of _____

The cylinder is made of _____