

Mass

Volume

Glue this
side down
into your
science
notebook.

Legal Size Print Out

8.5 x 14

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5th grade science

www.middleschoolscience.com

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Density

**Using the formulas
for mass, volume
& density**

$$D = m/v$$

The amount of matter in
a given space or volume.
g/mL or g/cm³

A brick has a mass of 100 g and a
volume of 25 cm³. What is the
density of the brick?

The density of gold is 19.3 g/cm³. If I
have a nugget with a volume of 10
cm³, what is the mass of the cube?

$$m = v \times D$$

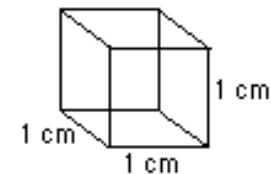
The amount of matter in an
object. The amount of “stuff”
is measured in grams.

How to solve a word problem:

1. Read the word problem carefully.
2. Determine what is being asked for.
3. Write the formula and plug in the known values.
4. Calculate and solve for the unknown value.
5. Write the answer and corresponding unit.

My paperweight has a mass of 50 g
and a density of 2.5 g/cm³. How
much space does it take up?

Volume of 1 cubic
(cm³) centimeter



$$1 \text{ mL} = 1 \text{ cm}^3$$

$$v = m/D$$

The amount of space an
object takes up. We use cm³
or mL to measure volume.