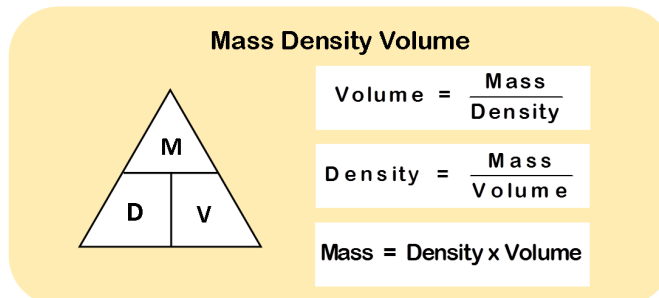


Mass Density Volume **www.cazoommaths.com**

**CALIFORNIA CONTENT STANDARDS:**

Lecture: 3.4 Density Have students copy in notebooks

- Put up overhead with density notes
- Have students take notes in notebooks

LAB: Complete Lab # 4 Density and Volume (NB – 23)

Density Lab $D=m \text{ (grams)}/v \text{ (cm}^3\text{)}$

Determine the Volume of liquids

Figure out the density and plot the data on graph for the five cardboard shapes. Figure out unknown density by using the graph to determine value.

Students will weigh and find the volume of four pieces of rectangular cardboard shapes. Once these quantities are determined, they will plot

Mass, grams

- students will write up lab and collect data using Scales for measurement

Class Work: Put up Over Head with the Lab for Density. Have students complete the lab in their notebooks. Students will:

- Create a chart recording the following data
 - Mass of all samples 1-5
 - Volume of samples 1-4
- Create a graph with mass and volume as axis (example on board)
 - Students use graph paper, cut to size, glue in notebook for lab
 - Scissors, glue and colored pencils are in boxes on tables.
- Plot two points from each shape with different colored lines
- Determine the unknown volume of 5th shape by looking up mass on graph and determining g volume from other axis.

Class Work: On their own piece of paper complete problems *I'm Not Dense* (NB-24-25)

Density Problems: Do not write questions. Just show math set up and that they arrive at the same answer listed.

Clean Up: make sure all shapes are in envelopes, tools in boxes, handouts on trays etc.

Students will stack chairs and stools last 5 minutes of class. My clock is 4 minutes ahead...just saying. Have a great weekend.

Home Work: None