- 2. Chemistry is the study of matter
- · Matter anything that has a mass and volume.
- · mass number of particles that a substance contains. Weight describes how the particles are affected by gravity Mass never changes, weight changes
  - density

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• volume - the amount of space
the particles occupy

-liquids - use a graduated cylinder
- Unit: litres, millilitres

- Solids - "length x width x height"

Unit: cm x cm x cm

= cm<sup>3</sup>

- Water - I gram occupies I ml of space

## 3. Density

- Describes the amount of particles that occupies a certain amount of space floating - things that have low density will float in stuff that has high density

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unit: 
$$D = 9$$
 liquids
$$D = 9$$
 Solid
$$Cm^3$$

## GUESS method

Sep 18-2:08 PM

Ex. #1 on worksheet

$$G = V = 4 \text{ cm}^3 \text{ m} = 20 \text{ g}$$
 $U = D$ 
 $S = \text{The density}$ 
 $E = D = M$ 

of the mineral sample is

 $S = D = 20 \text{ g}$ 
 $4 \text{ cm}^3$ 
 $= 5 \text{ g}$ 
 $6 \text{ cm}^3$