MATTER

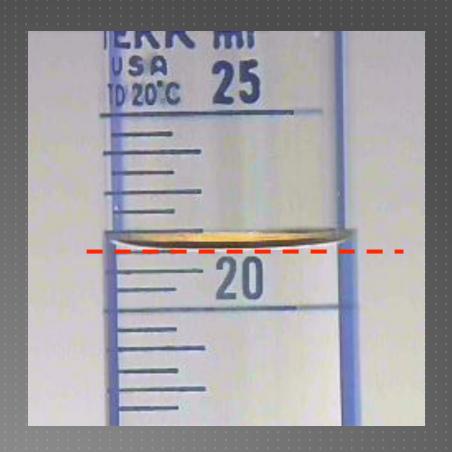
Anything that has mass and takes up space

MASS & VOLUME

- Mass
 - ► The amount of matter an object contains
 - ► Measure using a Triple Beam Balance
- Volume
 - ► The amount of space an object takes up
 - ▶ Measure using a formula, such as $V = L \times W \times H$
 - ► Measure using a graduated cylinder
 - ► Measure using the Water Displacement Method

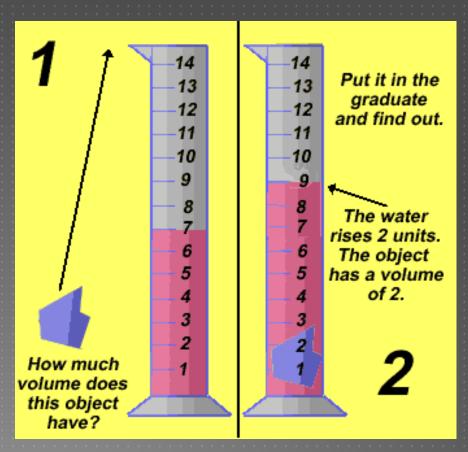
READING LIQUID VOLUME

- How to read liquid volume accurately.
 - Watch out for the Meniscus!!!
 - ▶ Read the water level at the bottom and lowest point of the Meniscus.
 - ▶ What is the volume?



VOLUME OF AN IRREGULARLY-SHAPED SOLID

- Measure the height of the water.
- Add the object.
- Measure the new height of the water.
- The difference is the volume for the solid.
- What is the volume in the example?



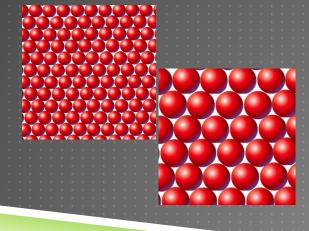
MASS vs VOLUME

Mass

The amount of matter in an object.

Volume

The amount of space an object takes up.









BUILDING BLOCKS OF MATTER

- Atoms are the building blocks of matter
- Atoms give matter its volume and mass.