# Matter



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What is Matter

Matter is anything that has mass and takes up space

Properties of Matter

#### Mass

- is a measure of the amount of matter and in an object
- in kilograms
- the golf ball has more mass because it tips the balance

#### Volume

- describes how much space a sample of matter takes up
- in milliliters
- the volume of a solid may be measured by multiplying its height times its length times width

### Mass and Weight

Mass vs. Weight	
Mass	Weight
Is a measure of the amount of matter in an object The unit of measure of mass is kilograms or (kg) A equal-pan balance is the tool to helps you to obtain measurement Mass is the amount of matter in an object wherever you are it stays the same. So wherever you are on Earth or space your mass will stay the same.	Ts actually the force of gravity between Earth and Space The unit of measure of weight is newtons or(n) A scale is the tool to help you to obtain measurement Tf you are on earth your weight is more than. On the moon it is less than.





Density is physical property of matter.Density is calculated by dividing the mass by its volume. The mass of a rock is 190 g its volume can be found by calculating how much water it's displaces from the beaker. Did you know that if you put oil in a cup of water it floats?, well that's because it's less dense then water. As long as the conditions, such as temptress of an object don't change there density. Denser objects have less empty space. Did you ever have your shampoo bottle drop into the tub ,well density is in control of that. It makes items sink or float.

Volume

## Conductor or Insulator

<u>Conductors</u> are materials that allow energy to flow through easily



<u>Insulator</u> are materials that doesn't readily permit energy not to flow through easily





Weight Mass Density Volume Astronaut Teacher Life Guard \_\_\_Clown

Conductors and Insulators

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