

Words	Definitions
Matter	
Specific properties	Properties that can be
General properties	Properties that can be
Mass	The amount of
Weight	The amount of
Volume	The amount of
Density	The amount of
Grav. Pull	
Triple beam balance	The tool used to measure
Grams	The unit for
Ruler	The tool used to measure
cm^3	The unit for
Graduated cylinder	The tool used to measure
mL	The unit for
Water displacement	The method for
$L \times W \times H$	The formula for
g/cm^3	The unit for

5) You would weigh less on the Pluto than on Earth because Pluto is smaller in size.

TRUE

FALSE

If FALSE, REWRITE to be TRUE: _____

Spongebob is going on a trip. He will be travelling to the moon and after that to Saturn. NASA is concerned about how much the rocket can carry, so they want to make sure I am in top physical condition for the trip. They do not want me to gain weight before the trip, or is it that they don't want my mass to change?




At sea level on Earth, NASA is going to measure my mass using a tool called a _____ . The unit of measurement for mass is _____ . The strength of the pull of _____ changes depending on your distance from the source of gravity. On Earth, the source of gravity is _____ . The higher your elevation, the _____ you weigh because you are _____ from the source of gravity.

First, I teleport to the bottom of the Grand Canyon. When I arrive, my _____ will stay the same but my _____ will probably change. Down here, I am _____ to the source of gravity, so the pull of gravity is _____ and I weigh _____ than at sea level.



In my next expedition, I teleport to Pluto, where I will have the same _____ but a different _____ than I had on the Earth. In studying matter, scientists generally say that objects (even planets) with more _____, have a greater _____ . Pluto has _____ mass than Earth, and therefore _____ gravity. So, I will weigh _____ than I do on Earth.

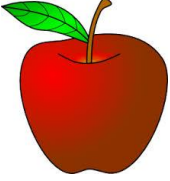
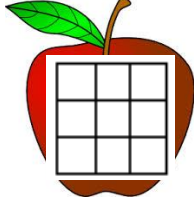

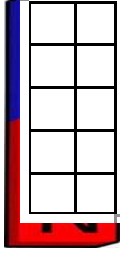

Define Volume - _____

1) TOOL for volume of liquids	
2) Relationship between cm^3 and mL	
3) METHOD for volume of irregular solids	
4) TOOL for volume of rectangular solids	
5) UNIT for volume of liquids	
6) UNIT for volume of rectangular solids	
7) FORMULA for volume of rectangular solids	

Object	Tool	Unit	Explain how to find volume of this object in words:
1) Baseball 			
2) Tool box 			
3) Grape Juice 			

Define Density -

Draw a picture of LESS dense particles: 	Draw a picture of MORE dense particles: 
Formula for Density :	
Units for density:	_____ or _____ (liquids) (solids)
The density of water is:	
Objects float (in water) if:	
Objects sink (in water) if:	

Object	Mass (g)	Volume (cm ³)	Density (g/cm ³)	Draw the particles	Float or Sink in water
1) apple 	9.5 g	10 cm ³	_____ g/cm ³		
2) magnet 	60 g	10 cm ³	_____ g/cm ³		
3) cork 	4 g	8 cm ³	_____ g/cm ³	