## 8th grade Lab Book Table of Contents

2020

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John Physics Light/Wo Period ABLDE'S Date Name and The inite we will raven this very will he Matter ABCDE's of 8th Grade SCIENCE

Create a Bitmoji Classroom

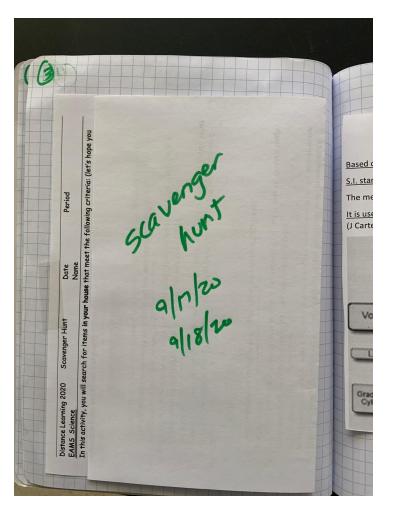
Watch the video (linked below), pausing it at each step so you can begin the video at 2:30 if you already have your avatar (the little cartoon image of yourself, like mine below) or if you do not want to include your avatar.

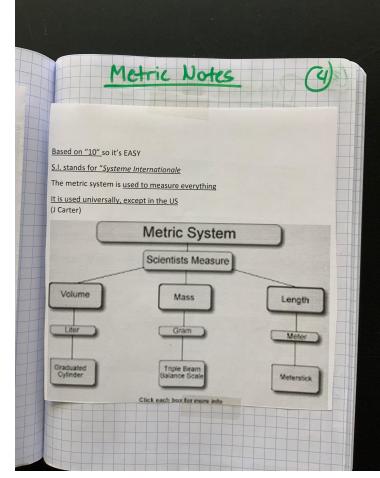
There are lots of other videos on Youtube that show how to make these scenes - if you have another one in mind or if you find one, you may use that. This one I have given you includes instructions for each of the required components and it does not take a long time to watch.

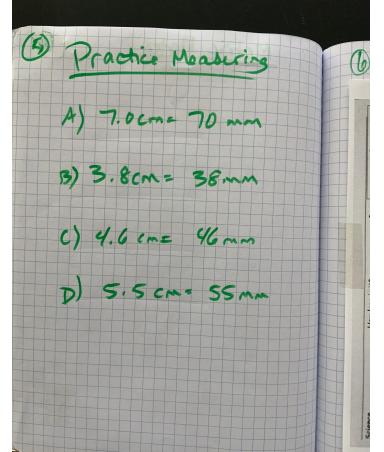
\*\*Ake a screenshot and upload it as shown below (scroll down). \*\*Ake a screenshot and upload it as shown in the "Ake a screenshot and upload it as a shown in the "Ake a screenshot and upload it as a shown in the "Ake a screenshot and upload it as a shown in the "Ake a screenshot and upload it as a shown in the "Ake a screenshot and upload it as a shown in the "

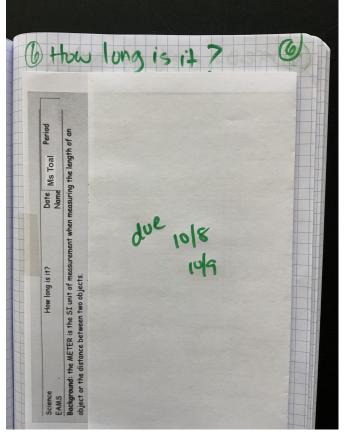












9 TBB+	grad. cyl. notes
B. How to 1. Pan 2. All 1. Che	Balance and Graduated Cylinder Notes beam balance Used to measure MOSS Rider  Beams  Pointer reropointer  Riders  o use needs to be Empty riders are all the way to the LEFT riders are all the way to the Significant with the Left Significant with the Significa

by notches until pointer dips

celus zero mark

6. Move 100 g rider

notch

7. Now move the 109 rider

following same steps as 100 g rider

8. Lastly move the g rider until

pointer is at zero

C. Record Mass

5. Move 1006 first

- Used to measure Volunce
   Read the Meniscus
   bottom of cure
  - · At eye level

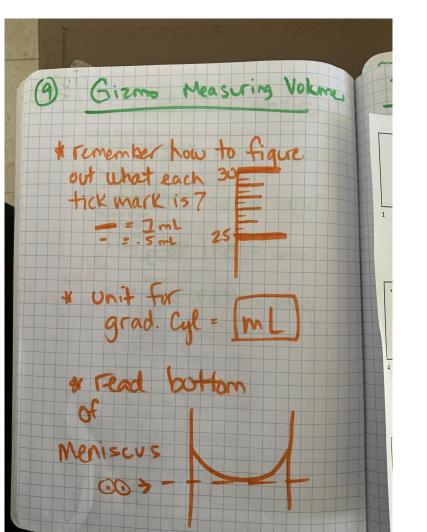
Gizma TBB

paper clip - 542 g

light bulb - 245.62 g

cone - 541.98 g

cube - 429.3 g



## Property of Matter

Matter

What is matter?
Anything that has mass and takes up

Some matter is easy pencil, tree to see, like \_\_\_\_

 Some matter is not easy to see, like \_\_\_\_

 Air, gases,

· What are the four properties of matter?

· Weight

· Volume · Density

· MASS:

• mass is the amount of matter in an object.

Notes on Matter

2020 EAMS Sciencel

• Everything in the Universe that has mass is affected by gravity.

· WEIGHT

is the measure of the gravitational pull on an object. · Weight = MASS X GRAVITY

· VOLUME · is the amount of

space that an object takes up or occupies.

There are two ways to find volume

· use a ruler to find (LXWXH) CM3

 Indirectly
 use a graduated cylinder and measure how much water is displaced. · DENSITY · is the amount of matter (mass) in a given space

(volume).
Can you think of two things that have two different densities?

(also known as specific gravity)

1) werm up Questions Measuring Volume Part Z what are 2 (1) Directly use a ruler Key Concepts-Volume + what LxwxH = Cm3

are the
(2) Units @INDIRECHY= \* Volume of cube = LXWXH units cm3 Use a Grad Cyl (mL) \* Volume of a SpHERE + directly = 4 mr3 Indirectly = grad cyl

Sphere = 26.5 cm3 same

Sphere = 26.5 cm3 \* Used over flow cap to Show water displacement \* found volume w/ grad cyl of marble ruck sphere rectangular prism

Notes on Density Density worksheet Gizmo (14) Key Concepts: Mass = Density = mass volume Density of water - 1.03/mi anything that has a density less than 1.09/ml ormoder object with a mass of 10g & volume of 2, 109 = 5 9/mc anything with a deasity Sinks that is greater than 1.09/4 ) in works Object has a mass of 8g, + volume e is 4 cm3 You can predict whether an Object will Ploat or 89 = 2 9/cm3 Sink in water if you can measure the objects density Int = 1 cm3 Gold density = 19.3 5/mL If an object has a density of 19.3 1/mc Density of Water - 1.0 3/ml it is Gold 1 Different liquids desirted

Density Part 2 (Gizmo) \* mass: the amount of matter \* volume = the amount of spare \* density = mass per unit volume Dense objects feel heavy for their size (lead ball) Low density object feel light for their size (styration) + Broyancy - the terdency to float. \* Items with a lower density tend to float above matter with a higher density lo

Density Review for Quiz (6) water density = 1.0 5/ml desity 41.09 ml = float in water object > 1.03/ml = Sink in water \* liquids have different densities ex: (gas & Water & corn syrup) Know how to calculate Density o know how to read grad up + \* Know that the amount of water displaced is equal to the object & Know how to read a TBB