## **Metric Measuring Madness** Mr. Traeger Geology Period: \_\_\_\_ Date: \_\_\_\_\_ Partners name: / 20 Points: To become familiar with and/or to review metric measurements and calculations. **Materials** bathroom scale meter stick triple beam balance calculator dice 100 mL graduated cylinder Irregularly shaped mineral (galena works best) water

## <u>Procedure</u>

Find the answers to the following items and express your measurements in the most appropriate units. Make sure to put units after the number that you measured. Use centimeters for distance measurement in this lab. **You will not get credit if you do not include units!** 

## Some Potentially Helpful Formulas

- area of a rectangle = length x
   volume of a rectangular box
   1 milliliter = 1 centimeter<sup>3</sup>
   e length x width x height
- density = mass/volume

Question (1.5 points each)		Answer (make sure to show your calculations!)	What are the appropriate metric units for this measurement?	What type of measurement is this (distance, volume, mass, area, or density)?
1.	What is your <i>height</i> ? What are the <b>units</b> for this type of measurement?			acrossy,
2.	What are the separate dimensions (length, width, and height) of your lab table? If you are sitting at a long middle table, then measure one half of its length. What are the units for this type of measurement?	Length: Width: Height:		
3.	What is the <i>area</i> of your lab table? What are the <b>units</b> for this type of measurement?			
4.	Imagine that your lab table is one big box or fish tank. What would be the <b>volume</b> of your lab table? What are the <b>units</b> for this type of measurement?			

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Geology Mr. Traeger					
Answer (make sure to <u>show your</u> <u>calculations!)</u>	What are the appropriate metric units for this measurement?	What type of measurement is this (distance, volume, mass, area, or density)?			
	Answer (make sure to show your	Answer (make sure to show your calculations!)  What are the appropriate metric units for this			

<u>Conclusion (2 points)</u>
How comfortable do you feel with metric measurements and calculations after doing this activity? Could you do this by yourself if you had to?