

Name: \_\_\_\_\_

Date: \_\_\_\_\_

## Measurement Lab

Many times every day we measure something...often without even realizing we are doing it. In this lab, you will learn how to use some of the measuring tools that we will use in science for the rest of the year.

There are many things that we measure. These are just a few:

- **Distance**

Q1. Name three different **units** that you use to measure distance?

We measure distance with many different tools.

- Meter Sticks
- Tape Measure
- Ruler

Q2. Use a measuring tape **and** a meter stick to measure the width of the room.

Measuring Tape Width

Meter Stick Width

Q3. Measure length, width and height of your wooden block in centimeters (cm)

Length		Q4. Draw a diagram of your wooden block with measurements.
Width		
Height		

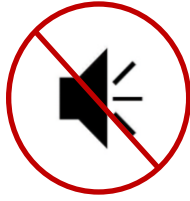
- **Mass**

Q5. What is mass?

Q6. What unit is used for measuring mass?

Object	Mass on Balance	Mass on Digital Scale
Copper Block		
Aluminum Block		
Iron Pipe		

- **Volume**



Q7. What is volume?

Q8. What unit is used for measuring volume?

There are two ways to measure volume.

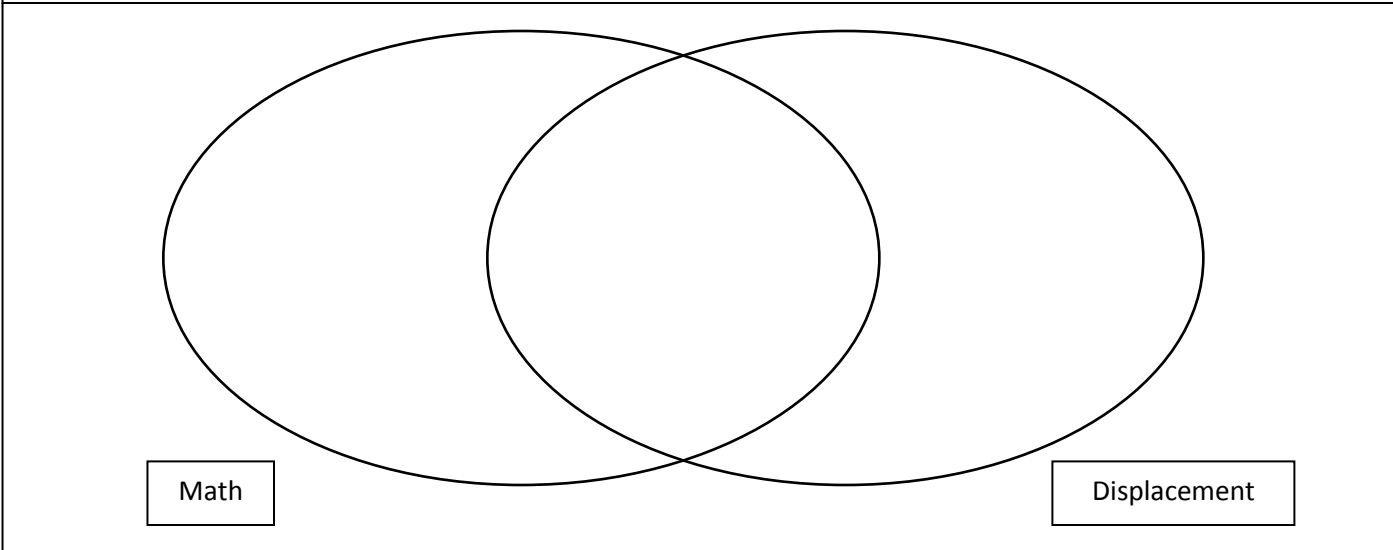
- Measurement and Mathematics
- Volume by Displacement

Q9. What is the formula for determining the volume of a box?

Q10. Calculate the volume of the block of wood you measured for Q3. **Show your work!**

Many times it is easier to use volume by displacement...

Q11. In the diagram below, compare and contrast our two ways to measure volume.



Q12. Measure the volume of one marble using the **displacement method**.

Q13. Measure the volume of one BB using the **displacement method**.

Q14. What made the BB more difficult than the marble? How could we make it easier?