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May you be blessed on your homeschooling journey. Happy learning!

Marie

Investigation Stations: Making Measurements

This Investigation Stations: Making Measurements sheet is the guide you need to conduct your own stations. You will want to create a station for length, volume/liquid volume, mass, temperature, and density. Stations are an effective way to bring movement to your classroom without the chaos. For a family setting, you may want to have your tools ready, but tackle each section one at a time. This activity may be one that you do over the course of a few days or week. Breaking the stations into sections allows a homeschool parent to focus on one topic at a time. Great one on one teaching time!

Investigation Stations: Making Measurements

Write the abbreviation for each measurement.

Liter	
Milliliter	
Kilogram	
Gram	
Milligram	

Kilometer	
Meter	
Millimeter	
Centimeter	
Second	

Use the appropriate tool and measurement to answer questions 1-4.

- Meters: m
Measuring from the floor to the ceiling
- Kilometers: km
Measuring a large distance (city to city)
- Centimeters: cm
Measuring small area (book)
- Millimeters: mm
Measuring smaller area (pencil eraser)

1. Measure the pen. _____
2. Measure the book. _____
3. Measure the paper clip. _____
4. Use the map to measure the distance between San Francisco, CA to Atlanta, GA. _____

Remember... volume is the amount of space something takes up. Use the formula below to answer the questions 5-6.

$$\text{Volume} = \text{Length} \times \text{Width} \times \text{Height}$$

5. You receive a birthday present. It is in a box. The box is 6 cm tall, 10 cm long, and 10 cm wide. What is the box's volume? _____
6. If a building is 20 meters tall, 50 meters wide, and 200 meters long, then what is its volume? _____

Find the liquid volume of the two cylinders.

7. Cylinder #1 _____

8. Cylinder #2 _____

Find the liquid volume of the irregular object using the tools provided.

9. Volume of irregular object _____

Mass is the amount of mass in an object. To measure mass, a scale or balance can be used. Using the tools provided, answer questions 10 – 15.

10. What is the mass of object #1?

11. What is the mass of object #2?

12. What is the mass of object #3?

13. What unit of measurement would you use to find the mass of your book bag? _____

14. What unit of measurement would you use to find the mass of a Hershey Kiss? _____

15. What unit of measurement would you use to find the mass of a horse? _____

To measure temperature, use the thermometer. Answer questions 16-18 using the tools provided.

16. Beaker #1 _____

17. Beaker #2 _____

18. Beaker #3 _____

Remember... An object's density is determined by its mass in volume. Use the formula to answer the question.

Density = Mass / Volume

19. What is the density of an object if the mass is 20 grams and the volume is 40 mL? _____

20. Find the density of the mystery object. _____