SI Scavenger Hunt

What do you remember about the SI system? How practical is the SI system for your use? Investigate and find how the SI system could be used in your world!

Ten points of the assignment are for neatness in presentation. Each item is worth 7.5 points. The assignment is worth 100 points, so that means you will need to get 12 items for 90 points to add the possible10 points for your presentation to get full credit. You may find extra items for a "cushion" for your grade; however, you will not receive any points over 100.

You may not share information with any other students. This is not a partner project, but an individual one.

For each item, show your work in the format that you will learn in this chapter, and include the source of the answer if necessary. If you need to borrow measuring equipment, you may bring the object to class to measure.

> EXAMPLE: Find the volume of a baseball in cm^3
>
> Diameter of baseball = 6 cm, radius = 3 cm
>
> Volume of a sphere = $4/3\pi r^3$= $4/3\pi(3 \text{ cm})^3$ = 113 cm^3

<mark>HOW TO TURN IN YOUR PROJECT:</mark>

- ☐ Your answers must be turned in on notebook paper.

- ☐ On the first line of the answer, include the item number and the answer. Underneath the answer, include your work and any other information such as source, signatures, etc.

- ☐ Skip two lines between each item on the list.

- ☐ Your answers must be in numerical order.

SCAVENGER HUNT ITEMS:

_____ 1. Something besides a meter stick that is between 97 and 103 cm. Identity the item and include its exact length in cm.

_____ 2. The mass of a brand-new yellow #2 wooden pencil in decigrams, and how you found it

_____ 3. The length of a the pink finger (not mine) of a Northpoint Christian School teacher, coach, or administrator in meters. Give the name of the teacher (elementary or high school) and include their signature. No teacher may be used more than once for this measurement.

_____ 4. The height of the ceiling in the chemistry room in millimeters and how you figured it out

_____ 5. The volume of 25 pennies in cm^3 (and how you measured it)

_____ 6. The temperature of the chemistry room at Northpoint Christian School, and how you found it

_____ 7. The mass of meat (before cooking) in a McDonald's Quarter Pounder in grams (no, you don't need to buy one)

_____ 8. The volume of CD or DVD case in cubic centimeters, and how you calculated it

_____ 9. The mass of a dollar in change in kilograms and the coins you used

_____ 10. The maximum volume of water that you can hold in your mouth, in milliliters

_____ 11. The distance between George Washington's eyes on the one dollar bill, in micrometers, and how you figured it out

_____ 12. The deepest depth of the ocean in kilometers (tell where you found the measurement and the name of the area)

_____ 13. The thickness of 1,000 NCS chemistry books in kilometers, and how you figured it out

_____ 14. The number of nanoseconds in a commercial (include the name of the commercial, the channel, date, and time)

_____ 15. The height of an actual living animal in meters. Give the type of animal and include their signature. (You may not use the Internet on this one, it has to be an actual live animal. Ok, I'm kidding about their signature.)

_____ 16. How many songs a 60 gigabyte MP3 player can hold if each song is 4000 bytes, and how you figured it out