CH 105 Supplemental Instruction

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Wednesday, 1:20-2:20, EB 132

Office Hour: Friday, 1:20-2:20, CTL 241C (Academic Success Center)

Part 1: Units of Measurement

1.	List the SI Units for the following:											
	•	Length:						•				

- Length:
- Volume:
- Mass:
- Temperature:
- Time:
- 2. Summarize 4 rules for determining the numbers of significant figures.

- 3. Note the number of sig figs for the following:
 - 27
 - .00341
 - 501.1080
 - 12.890
 - .000090

4. Write the following numbers in scientific notation:

- 5000
- 1,908,125
- .15
- .0000056
- .0003801

5. Write the following numbers in decimal form:

- 1.2 x 10^-3
- 6×10^2
- 9.023 x 10⁻⁶

- 4E-7
- 7.012E4
- 6. What does a direct relationship mean? Provide an example.
- 7. What does an indirect relationship mean? Provide an example.
- 8. Some sharks require 40 pounds of food per day in order to have enough energy to survive. If a shark requires exactly 40 pounds of food per day, how many grams of food will he have eaten in 3 days? Kg?

- 9. Write the relationship for density. Is this a physical or chemical property?
- 10. You have a substance with a density of 9.67 g/mL. What mass in grams of the substance do you have if you have 20 cm^3 of that substance?