

# Cornell Notes

Name Tutor / Shaevon Adams / Teacher / Fagguso	Date AUGUST 31, 2011
Topic PERIOD 1 : HW Review / Group Pres.	Class/ Subject CHEMISTRY

on Board :  
Chemistry  
 - check HW  
 - Presentation  
 - Notes:  
   • scientific notation

**Due Friday**  
 - 1.6 worksheet

why you multiplied :  
 • Trying to convert and find how many light years.

\* Always Report the final 3 significant numbers

• Get HW out and prepare for presentations

• HW Review (Front of sheet)  
 - Reinforcement  
   • questions on 1-5  
     - Zero's are not significant  
     - zeros indicate the decimal placement  
 Ex. 4646 ↓ Round down  
     4600 (only 2 significant #'s)

#15. ~~2.~~  
 $2.99792458 \times 10^8 \text{ m/s}$   
 $3.1557600 \times 10^7 \text{ s/yr}$   
 $\times$   
 $= 9.4607305 \times 10^{15} \text{ m/yr}$

(Back of sheet)

1. 8.5780g	2. 2 sig. figs.
8.7668g	9.4 - 4.6 = <span style="border: 1px solid black; padding: 2px;">4.8</span> mL
9.4923g	↑
8.4310g	(change in volume)
8.4510g	
+	
combined mass	
= 43.9211g	

7:52

8:00

→ wait be on test like #15

Today's lesson revolved around review of yesterday's work and homework assignment. The use of estimation and how to identify 2 or 3 significant numbers in problems.

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Take answers from problems one and two and divide.

\* HW worksheet due Friday

Expectations for Labs:

- Group presentation
- Lab write-up
  - formula essay

HW Review cont'd

$$\begin{aligned} \bullet \#3 \quad 43.9211 \text{ g} \div 4.5 \text{ mL} \\ = 9.000 \text{ g/mL} \end{aligned}$$

Group Presentations

• paper clip patterns

- Each group presents their personal findings from yesterday's experiment.

Experiment:

• Measure each paper clip with all 3 rulers and estimate the accurate length for each paper clip.

• measurements (varied based on method of measurement)

• 3 questions

- pertaining to the experiment

Group presentations were scheduled to help the students discuss and show what each group learned. The process of using prior knowledge was an overall base for class.

8:14 AM

# Cornell Notes

Name  
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Scientific Notation

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Scientific Notation  
=  
abb. "S.N"

- = highlighted

decimal point moved:  
Right =  $\rightarrow$  negative  
Left =  $\leftarrow$  positive

Notes:

• Makes numbers easier to work with.

Two Parts

I. the first part is a number between 1 and 10.

II. the second part is a power of 10.

Ex: 0.0025 written in S.N. =  $2.5 \times 10^{-3}$

How to do it:

• The proper exponent is found by counting how many times the decimal point must be moved so that the number is between 1 and 9, or 2 sig. figs.

• The decimal point will be placed between the first two digits.

• When the decimal is moved to the right, the exponent is negative.

- Ex: 0.00065234, in S.N. =  $6.52 \times 10^{-4}$

• When the decimal is moved to the left, the exponent is positive.

- Ex: 9285845, in S.N. =  $9.29 \times 10^6$

Using scientific notation helps when working with small and large. Starting with where the decimal moves.  $\times 10$  and the power equal the power and placement.

# Cornell Notes

Name: Corel Shoulin / Teacher FRAGOSO

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in this case, we needed to round up bc we only want to write the number using 2 significant fig.

Scientific notation makes working with large numbers easier.

Practice  
→

Express ea. of the following #s in scientific notation. Round off each number to 3 sig. fig.

(Right)

$$1) \underline{\underline{8.960}} = 8.96 \times 10^3 \quad (\text{positive})$$

(left)

$$2) 0.00000235 = 2.35 \times 10^{-6} \quad (\text{negative})$$

(left)

$$3) \underline{\underline{86000}} = 8.60 \times 10^4 \quad (\text{positive})$$

(Right)

$$4) \underline{\underline{0.0000000253}} = 2.53 \times 10^{-9} \quad (\text{negative}) \quad 8:50$$

\* No HW Today

Learning how to decipher scientific notation and which ways are positive and negative. Counting spaces and looking for the 3 sig. figs.