 $\square$
WHAT IS THE MOST IMPORTANT

- m RULE IN DRAWN
particle pictures?

the mass did change Nor BECASE NOTHNG ENTELED OR LEFT


How sid the masscrangee After burning, the wool was heavier.
"me More matter entered the system.


Round each number to the nearest hundred.

1) $0.551 \frac{9600}{5}$
2) $5,379 \quad 5400$
3) $1,425 \quad 1400$

ANSWERS

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6) $7,474 \frac{7500}{6300}$ 7)
8) 9.96410000
$T$ discording this round up
9. Multiply: $2.300 \times 0.0440$ and then write the answer to the correct number of significant figures. The rules for this are in Friday's notes or at genest.weebly.com.

$$
0.1012 \approx \begin{gathered}
\text { Round } \\
\text { the } \\
\text { thee } \\
\text { sigFigs }
\end{gathered}
$$

10. Divide: 5379 / and then write the answer to the correct number of significant figures. The rules for this are in Friday's fetes or at genest.weebly.com.

Coop! T TYPO
11. What is the correct reading of each meniscus?


10. With a calculator and the equation below, predict the number of minutes the animal would sleep if it consumed 140 calories (remember sig figs).


Your graph math be
The graph below is for an experiment where animal naps ere measured after the organism consumed a light meat. Assuming that 0,0 is one of the points on this graph, make a best fit line that includes 0,0 .

11. With a calculator and the equationbelew, estimate the amount of food the animal ate if slept 188. minutes.

$$
\frac{188 \text { minutes }}{1} \times \frac{50 \text { calories }}{48} \text { minutes }=195.8 \approx 200 \text { calories }
$$

12. With a calculator and the equation below, predict the number of minutes the animal would sleep if it consumed 140 calories (remember sig figs).

The graph below describes three different substances.
17. Calculate the slope of Substance A. Include

$$
\frac{\Delta y}{\Delta x}=\frac{40-0}{3-0}=13 \frac{\mathrm{~g}}{\mathrm{~cm}} 3
$$

18. Calculate the slope of Substance B. Include units $\frac{\Delta y}{\Delta x}=\frac{45-0}{5-0}=\frac{9 \mathrm{gmm}}{\mathrm{cms}}$
Using math similar to what you did in \#14-\#16, calculate the following.
19. What would be the mass of $9 \rho \rho$ grams of $A$ ? (Remember sig figs; round your answer!)
TYPO
20. What would be the volume of 224 grams of B? (Remember sig figs; round your answer!)

$$
224 \mathrm{gmox} \times\left(\frac{(1}{9} \mathrm{mmam}\right)=25 \mathrm{~mL}
$$

Review 1
EHS CA3mIs+ry
ひ̈̈r. Genest

Name $\qquad$
Date $\qquad$
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1. Divide: $5379 / 2.7$ and then write the answer to the correct number of significant figures. The rules for this are in Friday's notes or at genest. weebly, com.
2. In another experiment, a researcher measured how long a candle burned compared with the grams-of wax inthe candle. She determined that for ever 2.4 grams of wax the candle burned an additional 16.3 minutes. With a calculator and the equation below, predict the number of minutes the candle would burn if
 FOR EVERY 2.4 GeMS NEAT 16.3 minutes 9.3 mites goes BY

$$
\frac{140 \text { gratis s }}{1} \times \frac{16.3 \text { minutes }}{2.4 \text { grams }}=950.83 \approx 950 \text { MINUTES }
$$

3. With a calculator and the equation below, estimate the amount of grams the candle should weigh if you wish it to burn for 188 minutes.

$$
\frac{\text { burn for sg minutes. }}{} \frac{2.4 \text { grams }}{182 u t e s} \times 27.68 \approx 28 \mathrm{grans}
$$

4. With a calculator and the equation below, predict the number of minutes the candle woyd burn if it *


5. Convert 70.1 Mg to grams:
rounds to 2500 mingle answer to $\# 4$
this part below here is from notes a few days ago. I'm just sticking it here because people seemed to need to see it again. Remember to always write all the digits that are from the black lines. AND THEN, ESTIMATE ONE MORE DIGIT AND WRIT4E THAT. Many people missed this on the RR track homework.

${ }^{\text {Rule: }}$ If it's right on the live add a zero.
${ }^{\text {Ruler }}$ If it's between lies estimate a $1,23,4,55,5,8,9$
What is the curve called?
meniscus
