## Faculty Submitting: Allison Kelly

Specify here whether "Pre" or "End" of Unit and the Unit \#: Pre Unit 1

| LOs: Recogn and underst Units and D | ze Uncertainty in measurements, use significant figures in dimensional analysis problem solving, nd the difference between accuracy and precision mensional Analysis |  |
| :---: | :---: | :---: |
| Unit 1_ | Canvas Question Type: Multiple Answer |  |
|  | Every measurement provides what kinds of information? |  |
|  | Correct Answers: <br> magnitude <br> standard of comparison indication of uncertainty <br> Wrong Answers: <br> direction <br> time | , |
| Read More | https://openstax.org/books/chemistry-2e/pages/1-4-measurements |  |
| Unit 1_ Question 2 | Canvas Question Type: Matching |  |
|  | Match the property to the base unit <br> Length - meter (m) <br> mass - kilogram (kg) <br> time - second (s) <br> temperature - kelvin (K) <br> electric current - ampere (A) <br> amount of substance - mole (mol) <br> luminous intensity - candela (cd) .... |  |
| Read More | https://openstax.org/books/chemistry-2e/pages/1-4-measurements |  |
| $\begin{array}{\|c} \hline \text { Unit 1_ } \\ \text { Question } 3 \end{array}$ | Canvas Question Type: Multiple Choice | Commented [KMA2]: This would be a good one to build out into a question group |
|  | A measurement is reported as 270.5 m . Which statement is true about this measurement? |  |


|  | Correct Answer: The digits 2, 7 and 0 are certain, but the 5 is an estimate <br> Wrong Answers: <br> All of the digits are certain <br> The 2 and the 7 are certain, but the 0 and the 5 are estimated <br> The length is 270.50 m |  |
| :---: | :---: | :---: |
| Read More | https://openstax.org/books/chemistry-2e/pages/1-5-measurement-uncertainty-accuracy-andprecision |  |
| Unit 1_ Question 4 | Canvas Question Type: Matching |  |
|  | Match the rule for rounding to the correct number of significant figures with the operation where it should be used <br> Addition and Subtraction - Round to the same number of decimal places as the number with the least number of decimal places <br> Multiplication or Division - Round to the same number of digits as the number with the least number of significant figures |  |
| Read More | https://openstax.org/books/chemistry-2e/pages/1-5-measurement-uncertainty-accuracy-andprecision |  |
| Unit 1_ Question 5 | [Canvas Question Type: Multiple Drop Down | Commented [KMA3]: Relatively easy to build out into a question group |
|  | For each of the following numbers, indicate the correct method for rounding to three digits |  |
|  | 4.352 [DropOne] <br> 6.785 [DropTwo] <br> 3.776 [DropThree] <br> 7.355 [DropFour] <br> DropOne <br> Correct: Round Down Wrong: Round Up <br> DropTwo <br> correct: Round Down wrong: Round Up |  |



| Read More | https://openstax.org/books/chemistry-2e/pages/1-6-mathematical-treatment-of-measurement- <br> $\underline{\text { results }}$ |
| :--- | :--- |

