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| **N1 Math Review Glue In** | **N2 Dimensional Analysis Glue In**

|  |  |  |
| --- | --- | --- |
| **Metric to Metric**  | **English to Metric** | **English to English** |
| 1 km  | = 1000 m | 1 mile | = 1.609 km | 1 ft | = 12 in |
| 100 cm | = 1 m | 1 in | = 2.54 cm  | 1 yd | = 3 ft |
| 1000 mm | = 1 m | 1 m | = 39.37 in | 1 mile | = 5280 ft |
| 1000 mg | = 1 g | 1 ft3 | = 28.32 L | 1 gallon | = 4 qt |
| 1000 g | = 1 kg | 1 L | = 1.057qt | 1 lb | = 16 oz |
| 1000 ml | = 1 L | 1 lb | = 453.6 g | 1 quart | = 4 cups |
| 1 cm3 | = 1 ml | 1 g | = 0.03527 oz | 1 pint | = 2 cups |

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|  |  |
| **N4 Properties Changes Types of Matter Glue In**Z:\50627 IRDVD Tro Chemistry A Molecular Approach\Working Files 50627\JPEG 50627\ch01\01_Pg7_UnFigure.jpg |
|  |
| **N5 Conclusions from Gold Foil Experiment**

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| --- |
| Conclusions from the Gold Foil Experiment  |
| **Most of the particles passed right through****A few particles were greatly deflected.** **Very few were GREATLY deflected** |  |

**N5 Conclusions from Study** **of the Electron**

|  |  |  |
| --- | --- | --- |
| Conclusions from the Study of the Electron  |  | Conclusions from the Study of the Electron |
| **Cathode rays have identical properties regardless of element used** |  |  | **Cathode rays have identical properties regardless of element used** |
| **Atoms are neutral** |  |  | **Atoms are neutral** |
| **Electrons have very little mass compared to the atom’s mass** |  |  | **Electrons have very little mass compared to the atom’s mass** |

 |
|  |

**N3 Glue In Significant Figures**

|  |  |  |
| --- | --- | --- |
| **Nonzero Integers** | ALWAYS COUNT as SIGNIFICANT |  |
| **Leading Zeros** | NEVER COUNT as SIGNIFICANT |  |
| **Captive Zeros** | ALWAYS COUNT as SIGNIFICANT |  |
| **Trailing Zeros** | AFTER A DECIMALALWAYS COUNT as SIGNIFICANT |  |
| *SOMETIMES COUNT as SIGNIFICANT* | NO DECIMALNEVER COUNT as SIGNIFICANT |  |
| **Exact Numbers** | INFINITE NUMBER of sig figs |  |
| **Multiplication & Division** | Answer based on LEAST number of SIG FIGS in the problem |  |
| **Addition & Subtraction** | Answer based on LEAST number of DECIMAL PLACES in the problem |  |