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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 | |
|  |  |
| **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**   |  |  | | --- | --- | | 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**

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| --- | --- | --- |
| **Nonzero Integers** | ALWAYS COUNT as SIGNIFICANT |  |
| **Leading Zeros** | NEVER COUNT as SIGNIFICANT |  |
| **Captive Zeros** | ALWAYS COUNT as SIGNIFICANT |  |
| **Trailing Zeros** | AFTER A DECIMAL ALWAYS COUNT as SIGNIFICANT |  |
| *SOMETIMES COUNT as SIGNIFICANT* | NO DECIMAL NEVER 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 |  |