**Metric Conversion Staircase**

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|  |  |  |  |  |  |  |  |  |  |  | **Base Unit (no prefix)** |  |  |  |  |  |  |  |
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|  |  |  |  | **Base Units**  m = meters (distance) s = seconds (time)  g = grams (mass) J = Joules (energy)  **Prefixes**  In the metric system, prefixes are added to base units to change their value. Examples:  km=kilometer (1000 meters)  cm=centimeter (0.01 meters)  mm=millimeter (0.001 meters)  kg=kilogram (1000 grams) |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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|  |  |  |  |  |  |  |  |  |  | **Unit Conversion Examples:**   1. 2781 cm 🡪 \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_m 2. 0.023 mm 🡪 \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_µm 3. 62 kg 🡪 \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_mg 4. 79,000,000 ns 🡪 \_\_\_\_\_\_\_\_\_\_\_\_\_\_s |  |  |  |  |  |  |  |  |
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