

## Metric Math Conversion Chart

|   |  |
|---|--|
| <b>Length</b><br>1 meter = 100 centimeters<br>1 meter = 1000 millimeters<br>10 millimeters = 1 centimeter | <b>Volume for Fluids</b><br>1 liter = 1000 milliliters<br>1 milliliter = 1 cubic centimeter<br>10 deciliters = 1 liter |
| <b>Weight</b><br>1000 mcg = 1 milligram<br>1 gram = 1000 milligrams<br>1 kilogram = 1000 grams            |  |

### Terms

- Gram (g) measures mass or weight
- Liter (l) measures volume or liquid
- Meter (m) measures length or distance

Kilo (k)               =       thousands  
 Deci (d)              =       tenths  
 Centi (c)            =       hundredths  
 Milli (m)            =       thousandths

### Comparison Chart

|                      | KILO-      | BASE                   | DECI-     | CENTI-     | MILLI-                                | MICROMILLI- |
|----------------------|------------|------------------------|-----------|------------|---------------------------------------|-------------|
| <b>Common Units</b>  | kilogram   | gram<br>liter<br>meter | deciliter | centimeter | milligram<br>milliliter<br>millimeter | microgram   |
| <b>Value to Base</b> | 1000       | 1.0                    | 0.1       | 0.01       | 0.001                                 | 0.000001    |
| <b>Meaning</b>       | 1000 times | Whole unit             | 1/10      | 1/100      | 1/1000                                | 1/1,000,000 |

### Abbreviations

|                 |                       |                 |
|-----------------|-----------------------|-----------------|
| Millimeter (mm) | Centimeter (cm)       | Meter (m)       |
| Microgram (mcg) | Milligram (mg)        | Gram (g)        |
| Kilogram (kg)   | Cubic centimeter (cc) | Milliliter (mL) |
| Deciliter (dL)  | Liter (L)             |                 |