

## Conversion Factors for SI Units

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The International System of Units (SI) refers to the standardized units of weights, measures, and other quantities used throughout the world. Some U.S. textbooks use Imperial units. The following conversion table may be useful.

To convert from	Multiply by	To get unit
feet	0.3048	meters (m)
inches	2.54	centimeters (cm)
miles	1.6093	kilometers (km)
ounces	28.35	grams (g)
pounds	0.4536	kilograms (kg)
tons	1016	kilograms (kg)
yards	0.9144	meters (m)

Temperature in degrees Fahrenheit ( $^{\circ}\text{F}$ ) is converted to temperature in kelvins (kelvins, K) and temperature in degrees Celsius ( $^{\circ}\text{C}$ ) TC by the equations:

$$T = (5/9)(TF + 459.67)$$

$$TC = (5/9)(TF - 32)$$

where T is in kelvins, TF is in  $^{\circ}\text{F}$ , and TC is in  $^{\circ}\text{C}$ .

Note: On the absolute temperature scale, it is correct to use kelvins (symbol K) to specify temperature but not "degrees Kelvin" (symbol  $^{\circ}\text{K}$ ), which became obsolete by international agreement in 1967.