

UPLR Appendix A: SI/Inch-Pound Conversion Factors**

Length					
1 mil (0.001 in)	=	25.4 μm	1 micrometer	=	0.039 37 mil
1 inch	=	2.54 cm*	1 millimeter	=	0.039 370 1 in
1 foot	=	30.48 cm*	1 centimeter	=	0.393 701 in
1 yard	=	0.914 4 m*	1 meter	=	3.280 84 ft
1 rod	=	5.029 2 m			
Area					
1 square inch	=	6.451 6 cm^2 *	1 square centimeter	=	0.155 000 in ²
1 square foot	=	929.030 cm^2	1 square decimeter	=	0.107 639 ft ²
1 square yard	=	0.836 127 m ²	1 square meter	=	10.763 9 ft ²
Volume or Capacity					
1 cubic inch	=	16.387 1 cm^3	1 cubic centimeter	=	0.061 023 7 in ³
1 cubic foot	=	0.028 316 8 m ³	1 cubic decimeter	=	0.035 314 7 ft ³
1 cubic foot	=	28.316 8 L			
1 cubic yard	=	0.764 555 m ³	1 cubic meter	=	35.314 7 ft ³
				=	1.307 95 yd ³
1 fluid ounce	=	29.573 5 mL	1 milliliter	=	0.033 814 fl oz
1 liquid pint	=	473.177 mL	1 liter	=	1.056 69 liq qt
	=	0.473 177 L	1 liter	=	0.264 172 gal
1 liquid quart	=	946.353 mL	1 dry pint	=	550.610 5 mL
	=	0.946 353 L	1 dry quart	=	1.101 221 L
1 gallon	=	3.785 41 L	1 peck	=	8.809 768 L
1 bushel	=	35.239 1 L	1 gill	=	118.294 1 mL
Mass (Weight)					
1 ounce	=	28.349 5 g	1 milligram	=	0.000 035 274 oz
1 pound	=	453.592 37 g*		=	0.015 432 4 grain
	=	0.453 592 kg	1 gram	=	0.035 274 oz
1 grain	=	64.798 91 mg*	1 kilogram	=	2.204 62 lb
Temperature					
$t_{\circ C} = \frac{5}{9} (t_{\circ F} - 32)$			$t_{\circ F} = 1.8 t_{\circ C} + 32$		
<p>*Exactly</p> <p>**These conversion factors are given to six or more significant digits in the event such accuracy is necessary. To convert to inch-pound units divide by the factor rather than multiplying.</p>					