

CONVERSION FACTORS FOR UNITS OF MEASUREMENT

To Convert From	To	Multiply By	To Convert From	To	Multiply By
Length					
Inch	Millimeter	25.4	Millimeter	Inch	0.03937
Foot	Meter	0.3048	Meter	Foot	3.28084
Yard	Meter	0.9144	Meter	Yard	1.09361
Mile	Kilometer	1.6093	Kilometer	Mile	0.62137
Area					
Square Inch	Sq. Millimeter	645.16	Sq. Millimeter	Square Inch	0.001550
Square Foot	Sq. Meter	0.0929	Sq. Meter	Square Foot	10.7639
Square Yard	Sq. Meter	0.8361	Sq. Meter	Square Yard	1.19599
Square Mile	Sq. Kilometer	2.5899	Sq. Kilometer	Square Mile	0.3861
Volume					
Gallon	Liter	3.7854	Liter	Gallon	0.26417
Quart	Liter	0.9463	Liter	Quart	1.05669
Cubic Inch	Cubic Millimeter	16387.06	Cubic Millimeter	Cubic Inch	0.000061
Cubic Foot	Cubic Meter	0.0283	Cubic Meter	Cubic Foot	35.31466
Cubic Yard	Cubic Meter	0.76455	Cubic Meter	Cubic Yard	1.30795
Mass					
Ounce	Gram	28.3495	Gram	Ounce	0.035274
Pound	Kilogram	0.45359	Kilogram	Pound	2.20462
Short Ton	Kilogram	907.185	Kilogram	Short Ton	0.0011
Force					
Ounce-Force	Newton	0.278014	Newton	Ounce-Force	3.59694
Pound-Force	Newton	4.44822	Newton	Pound-Force	0.22481
Pressure					
Pound-Force per Square Inch	Kilopascal	6.894757	Kilopascal	Pound-Force per Square Inch	0.145038
Foot of Water (39.2°F)	Kilopascal	2.98898	Kilopascal	Ft. of Water	0.334562
Inch of Mercury (32°F)	Kilopascal	3.38638	Kilopascal	In. of Mercury	0.295301
Bending Moment					
Pound-Force-Inch	Newton-Meter	0.112985	Newton-Meter	Pound-Force-Inch	8.85073
Pound-Force-Foot	Newton-Meter	1.355818	Newton-Meter	Pound-Force-Foot	0.73756
Energy, Work, Heat					
Foot-Pound-Force	Joule	1.355818	Joule	Foot-Pound-Force	0.73756
British Thermal Unit (BTU)	Joule	1055.056	Joule	BTU	0.000948
Calorie	Joule	4.1868	Joule	Calorie	0.23884
Kilowatt Hour	Joule	3,600,000	Joule	Kilowatt Hour	2.78 ⁻⁷
Power					
Foot-Pound-Force Per Second	Watt	1.355818	Watt	Foot-Pound-Force Per Second	0.73756
British Thermal Unit Per Hour	Watt	0.29307	Watt	BTU/Hr	3.41214
Horsepower	Kilowatt	0.7457	Kilowatt	Horsepower	1.341022
Temperature					
Degree Fahrenheit	Degree Celsius	(°F-32)/1.8	Degree Celsius	Degree Fahrenheit	1.8x°C + 32