

APPENDIX 8. CONVERSION FACTORS TABLE

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LENGTH

Multiply	By	To Obtain
Centimetres	0.3937	Inches
	0.03281	Feet
	.01	Meters
Kilometres	3281	Feet
	0.6214	Miles
	0.5399	Nautical Miles
	1093.6	Yards
Meters	39.37	Inches
	3.281	Feet
	1.0936	Yards
Statute Miles	5280	Feet
	0.8690	Nautical Miles
	1760	Yards
Nautical Miles	6076.1	Feet
	1.1508	Statute Miles

WEIGHT

Multiply	By	To Obtain
Grams	0.03527	Ounces (advp)
	0.002205	Pounds (advp)
	1000	Milligrams
	0.001	Kilograms
Kilograms	2.205	Pounds (advp)
	35.27	Ounces (advp)
	1000	Grams
Pounds (advp)	7000	Grains
	16.0	Ounces
	1.215	Pounds (troy)

VOLUME

Multiply	By	To Obtain
Cubic Centimetres	10^{-3}	Litres
	0.0610	Cubic Inches
Cubic Feet	28317	Cubic Centimeters
	1728	Cubic Inches
	0.03704	Cubic Yards
	7.4805	Gallons (U.S.)
	28.32	Litres
Cubic Inches	4.329×10^{-3}	Gallons (U.S.)
	0.01732	Quarts (U.S.)
	0.0164	Litres
Cubic Meters	61023	Cubic Inches
	35.31	Cubic Feet
	264.17	Gallons (U.S.)
	1.308	Cubic Yards
Gallons Imperial	277.4	Cubic Inches
	1.201	Gallons (U.S.)
	4.546	Litres
Gallons, U.S.	231	Cubic Inches
	0.1337	Cubic Feet
	3.785	Litres
	0.8327	Imperial Gallons
	128	Fluid Ounces
Fluid Ounces	29.59	Cubic Centimeters
	1.805	Cubic Inches
Litres	61.02	Cubic Inches
	0.2642	Gallons (U.S.)
	1.057	Quarts (U.S.)

AREA

Multiply	By	To Obtain
Square Centimetres	0.1550	Square Inches
	0.001076	Square Feet
Square Feet	144	Square Inches
	0.1111	Square Yards
Square Inches	645.16	Square Millimeters
Square Kilometres	0.3861	Square Statute Miles
Square Meters	10.76	Square Feet
	1.196	Square Yards
Square Statute Miles	2.590	Square Kilometers

VELOCITY

Multiply	By	To Obtain
Feet per Minute	0.01136	Miles Per Hour
	0.01829	Kilometers Per Hour
	0.5080	Centimeters Per Second
	0.01667	Feet Per Second
Feet Per Second	0.6818	Miles Per Hour
	1.097	Kilometers Per Hour
	30.48	Centimeters Per Second
	0.3048	Meters Per Second
	0.5921	Knots
Knots	1.0	Nautical Miles Per Hour
	1.6878	Feet Per Second
	1.1508	Miles Per Hour
	1.852	Kilometers Per hour
	0.5148	Meters Per Second
Meters Per Second	3.281	Feet Per Second
	2.237	Miles Per Hour
	3.600	Kilometers Per Hour
Miles Per Hour	1.467	Feet Per Second
	0.4470	Meters Per Second
	1.609	Kilometers Per Hour
	0.8690	Knots
Radians Per Second	57.296	Degrees Per Second
	0.1592	Revolutions Per Second
	9.549	Revolutions Per Minute

Multiply	By	To Obtain
Atmospheres	29.921	Inches of Mercury
	14.696	Pounds Per Square Inch
	2116.2	Pounds Per Square Foot
Inches of Mercury	0.03342	Atmospheres
	0.4912	Pounds Per Square Inch
	70.727	Pounds Per Square Foot
Inches of Water (at 4°C)	0.00246	Atmospheres
	0.07355	Inches of Mercury
	0.03613	Pounds Per Square Inch
	5.204	Pounds Per square Foot
Pounds Per Square Inch	6.895	Kilo Pascals

POWER

Multiply	By	To Obtain
BTU Per Minute	12.96	Foot Pounds Per Second
	0.02356	Horsepower
Horsepower	33000	Foot Pounds Per Minute
	550	Foot Pounds Per Second
	0.7457	Kilowatts

TEMPERATURE

Degrees Kelvin = Degrees Celsius Plus 273.2
 Degrees Rankine = Degrees Fahrenheit Plus 459.7

Multiply	By	To Obtain
Fahrenheit	5/9 (F-32)	Celsius
Celsius	9/5 C+32	Fahrenheit

ANGULAR DISPLACEMENT

Multiply	By	To Obtain
Degrees	1.745×10^{-2}	Radians
Radians	57.3	Degrees

FORCE

Multiply	By	To Obtain
Pounds	4.448	Newtons

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