

# METRIC CONVERSIONS

## EQUIVALENTS

	US to Metric	Metric to US
<b>Length</b>	1 inch = 25.4 millimeters 1 inch = 2.54 centimeters 39.37 inches = 1 meter 1 foot = .3048 meter 1 mile = 1.609 kilometers	1 millimeter = .03937 Inch 1 centimeter = .3937 inch 1 meter = 39.37 inches 1 meter = 3.2808 feet 1 kilometer = .6214 mile
<b>Area</b>	1 square inch = 6.4516 square centimeters 1 square foot = 929.03 square centimeters 1 square foot = .0929 square meters	1 square centimeter = .155 square inches 1 square centimeter = .0011 square feet 1 square meter = 10.76 square feet
<b>Weight</b>	1 ounce = 28.35 grams 1 pound = .4536 kilograms 1 ton = .9072 metric ton	1 gram = .0353 ounce 1 kilogram = 2.2046 pounds 1 metric ton = 1.1025 tons (2205 pounds)
<b>Temperature</b>	32°F = 0°C	0°C = 32°F
<b>Volume</b>	1 cubic inch = 16.3871 cubic centimeters 1 cubic foot = .0283 cubic meter 1 cubic yard = .7640 cubic meter 1 quart = .9463 liter 1 gallon = 3.7853 liters	1 cubic centimeter = .0610 cubic inch 1 cubic meter = 35.3145 cubic feet 1 cubic meter = 1.3080 cubic yards 1 liter = 1.0567 quarts 1 liter = .2642 gallons
<b>Speed</b>	1 foot per minute = .0051 meters per second	1 meter per second = 196.8504 feet per minute
<b>Force</b>	1 pound per square inch = .0703 kilograms per square centimeter 1 pound per square inch = .00689 megapascals 1 pound force = 4.5352 newtons	1 kilogram per square centimeter = 14.2248 pounds per square inch 1 megapascal = 145.0377 pounds per square inch 1 newton = .2205 pounds force

## CONVERSION FORMULAS

	US to Metric	Metric to US
<b>Length</b>	inches × 25.4 = millimeters inches × 2.54 = centimeters inches × .0254 = meters yards × .914 = meters miles × 1.609 = kilometers	millimeters × .0394 = inches centimeters × .394 = inches meters × 39.37 = inches meters × 1.1 = yards kilometers × .6214 = miles
<b>Area</b>	square inches × 6.4516 = square centimeters square feet × .0929 = square meters square yards × .8361 = square meters	square centimeters × .1550 = square inches square meters × 10.76 = square feet square meters × 1.1960 = square yards
<b>Weight</b>	ounces × 28.3500 = grams pounds × .4536 = kilograms tons × .9072 = metric tons	grams × .0353 = ounces kilograms × 2.2046 = pounds metric tons × 1.1025 = tons
<b>Temperature</b>	(°F - 32) × .556 = °C	(°C × 1.8) + 32 = °F
<b>Volume</b>	cubic yards × .7646 = cubic meters quarts × .9463 = liters gallons × 3.7852 = liters	cubic meters × 1.3079 = cubic yards liters × 1.0567 = quarts liters × .2642 = gallons
<b>Speed</b>	feet per minute × .0051 = meters per second	meters per second × 196.85 = feet per minute
<b>Density</b>	pounds per cubic foot × 16.0180 = kilograms per cubic meter	kilograms per cubic meter × .0624 = pounds per cubic foot
<b>Force</b>	pounds per inch × .1786 = kilograms per centimeter pounds per square inch × 6.8947 = kilopascals PIW rating × 1.7856 = EP rating pounds × 4.352 = newtons pounds per inch × 1.7855 = newtons per centimeter	kilograms per centimeter × 5.5997 = pounds per inch kilopascals × .1450 = pounds per square inch EP rating × .5600 = PIW rating newtons × .2205 = pounds newtons per centimeter × .5601 = pounds per inch
<b>Power</b>	horsepower × .7457 = kilowatts	kilowatts × 1.341 = horsepower
<b>Exchange Rates</b>	\$PIW × 129.1671 × exchange rate = foreign currency per square meter	Foreign currency per square meter ÷ exchange rate + 129.1671 = \$PIW