

APPENDIX C | MEASUREMENTS AND THE METRIC SYSTEM

C1 | Measurements and the Metric System

Measurements and the Metric System

Measurement	Unit	Abbreviation	Metric Equivalent	Approximate Standard Equivalent
Length	nanometer	nm	1 nm = 10^{-9} m	1 mm = 0.039 inch 1 cm = 0.394 inch 1 m = 39.37 inches 1 m = 3.28 feet 1 m = 1.093 yards 1 km = 0.621 miles
	micrometer	μm	1 μm = 10^{-6} m	
	millimeter	mm	1 mm = 0.001 m	
	centimeter	cm	1 cm = 0.01 m	
	meter	m	1 m = 100 cm 1 m = 1000 mm	
	kilometer	km	1 km = 1000 m	
Mass	microgram	μg	1 μg = 10^{-6} g	1 g = 0.035 ounce 1 kg = 2.205 pounds
	milligram	mg	1 mg = 10^{-3} g	
	gram	g	1 g = 1000 mg	
	kilogram	kg	1 kg = 1000 g	
Volume	microliter	μl	1 μl = 10^{-6} l	1 ml = 0.034 fluid ounce 1 l = 1.057 quarts 1 kl = 264.172 gallons
	milliliter	ml	1 ml = 10^{-3} l	
	liter	l	1 l = 1000 ml	
	kiloliter	kl	1 kl = 1000 l	
Area	square centimeter	cm ²	1 cm ² = 100 mm ²	1 cm ² = 0.155 square inch 1 m ² = 10.764 square feet 1 m ² = 1.196 square yards 1 ha = 2.471 acres
	square meter	m ²	1 m ² = 10,000 cm ²	
	hectare	ha	1 ha = 10,000 m ²	
Temperature	Celsius	°C	—	1 °C = $\frac{5}{9} \times (°F - 32)$

Table C1