

APPENDIX A

TABLE A-1 SI MEASUREMENT

Metric Prefixes

Prefix	Symbol	Factor of Base Unit
giga	G	1 000 000 000
mega	M	1 000 000
kilo	k	1 000
hecto	h	100
deka	da	10
deci	d	0.1
centi	c	0.01
milli	m	0.001
micro	μ	0.000 001
nano	n	0.000 000 001
pico	p	0.000 000 000 001

Mass

1 kilogram (kg)	= SI base unit of mass
1 gram (g)	= 0.001 kg
1 milligram (mg)	= 0.000 001 kg
1 microgram (μg)	= 0.000 000 001 kg

Length

1 kilometer (km)	= 1 000 m
1 meter (m)	= SI base unit of length
1 centimeter (cm)	= 0.01 m
1 millimeter (mm)	= 0.001 m
1 micrometer (μm)	= 0.000 001 m
1 nanometer (nm)	= 0.000 000 001 m
1 picometer (pm)	= 0.000 000 000 001 m

Area

1 square kilometer (km^2)	= 100 hectares (ha)
1 hectare (ha)	= 10 000 square meters (m^2)
1 square meter (m^2)	= 10 000 square centimeters (cm^2)
1 square centimeter (cm^2)	= 100 square millimeters (mm^2)

Volume

1 liter (L)	= common unit for liquid volume (not SI)
1 cubic meter (m^3)	= 1000 L
1 kiloliter (kL)	= 1000 L
1 milliliter (mL)	= 0.001 L
1 milliliter (mL)	= 1 cubic centimeter (cm^3)

TABLE A-2 UNIT SYMBOLS

amu = atomic mass unit (mass)	mol = mole (quantity)
atm = atmosphere (pressure, non-SI)	M = molarity (concentration)
Bq = becquerel (nuclear activity)	N = newton (force)
°C = degree Celsius (temperature)	Pa = pascal (pressure)
J = joule (energy)	s = second (time)
K = kelvin (temperature, thermodynamic)	V = volt (electric potential difference)