

MEASUREMENT STUDY GUIDE

Measurement	Definition	Formula	Metric unit label	English unit label	Tools needed to measure
Linear distance	A STRAIGHT LINE OR EDGE	X	mm, cm, dm, m, DKm, Hm, Km	Inches, feet, yards, miles	ruler
Area	SURFACE; SKIN	$A = l \times w$	$mm^2, cm^2, dm^2, m^2, DKm^2, Hm^2, Km^2$	$Inches^2, feet^2, yards^2, miles^2$	Ruler
Volume of solid	SPACE A SOLID TAKES UP	$L \times W \times H$	$mm^3, cm^3, dm^3, m^3, DKm^3, Hm^3, Km^3$	$Inches^3, feet^3, yards^3, miles^3$	Ruler
Volume of liquid	SPACE A LIQUID TAKES UP	X	mL, cL, dL, L, DKL, HL, KL	Cups, pints, tsp, quarts, gallons	Graduated cylinder, beakers
Mass	AMOUNT OF MATTER	X	mg, cg, dg, g, DKg, Hg, Kg	SLUG	Triple beam balance
Weight	How hard GRAVITY pulls down on an object	X	Newton	pounds	Spring scale
Density	HOW TIGHTLY PACKED	MASS/VOLUME	g/cm^3	X	Triple beam balance, ruler
Pressure	HOW HARD SOMETHING PUSHES	WEIGHT/ AREA	N/cm^2	Lb/in^2 or PSI	Spring scale & ruler
Temperature	HOW FAST MOLECULES MOVE	X	celsius	Fahrenheit	thermometer