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Weights & Measures (Quickstudy: Academic)

BASIC MEASUREMENT SYSTEMS			
System	Unit	Equivalent	Approximate
Length	1 in.	2.54 cm	100 inches = 2.54 meters
Area	1 sq. ft.	0.0929 sq. m	144 sq. ft. = 13.27 sq. m
Volume	1 cu. ft.	0.0283 cu. m	1728 cu. ft. = 0.0492 cu. m
Weight	1 lb.	0.4536 kg	16 lb. = 7.257 kg
Force	1 lb.	4.448 N	1 lb. = 4.448 N

LENGTH			
Unit	Abbrev.	Equivalent	Approximate
1 mile	mi	1.609 km	1000 meters
1 yard	yd	0.9144 m	91.44 cm
1 foot	ft	0.3048 m	30.48 cm
1 inch	in.	2.54 cm	2.54 cm
1 centimeter	cm	0.01 m	10 millimeters
1 millimeter	mm	0.001 m	1/1000 meter
1 meter	m	1.0936 yd	1.0936 yards
1 kilometer	km	0.6214 mi	0.6214 miles
1 nautical mile	nmi	1.1508 mi	1.1508 miles
1 fathom	fath	1.8288 m	1.8288 meters
1 league	lea	3.048 km	3.048 kilometers
1 parsec	pc	3.2616 ly	3.2616 light years
1 light year	ly	9.4608e15 m	9.4608e15 meters

AREA			
Unit	Abbrev.	Equivalent	Approximate
1 square foot	sq. ft.	0.0929 sq. m	0.0929 square meters
1 square yard	sq. yd.	0.8361 sq. m	0.8361 square meters
1 square mile	sq. mi.	2.59 sq. km	2.59 square kilometers
1 acre	ac	0.4047 ha	0.4047 hectares
1 hectare	ha	2.4710 ac	2.4710 acres
1 square meter	sq. m	10.764 sq. ft.	10.764 square feet
1 square centimeter	sq. cm	0.155 sq. in.	0.155 square inches
1 square millimeter	sq. mm	0.00156 sq. in.	0.00156 square inches
1 square kilometer	sq. km	0.3861 sq. mi.	0.3861 square miles
1 square decimeter	sq. dm	15.501 sq. in.	15.501 square inches
1 square meter	sq. m	1.196 sq. yd.	1.196 square yards

ENERGY			
Unit	Abbrev.	Equivalent	Approximate
1 British Thermal Unit	Btu	1055 J	1055 joules
1 calorie	cal	4.184 J	4.184 joules
1 kilocalorie	kcal	4184 J	4184 joules
1 joule	J	0.239 cal	0.239 calories
1 kilowatt-hour	kWh	3.6e6 J	3.6 million joules

VOLUME (LIQUID)			
Unit	Abbrev.	Equivalent	Approximate
1 barrel	barrel	163.67 L	163.67 liters
1 gallon	gal	3.785 L	3.785 liters
1 quart	qt	0.946 L	0.946 liters
1 pint	pt	0.473 L	0.473 liters
1 cup	cup	0.237 L	0.237 liters
1 fluid ounce	fl. oz.	29.57 mL	29.57 milliliters
1 milliliter	mL	0.001 L	0.001 liters
1 liter	L	1.057 qt	1.057 quarts
1 cubic meter	m ³	1000 L	1000 liters
1 cubic centimeter	cc	0.001 L	0.001 liters

VOLUME (DRY)			
Unit	Abbrev.	Equivalent	Approximate
1 bushel	bushel	35.237 L	35.237 liters
1 peck	pk	8.809 L	8.809 liters
1 quart	qt	0.946 L	0.946 liters
1 pint	pt	0.473 L	0.473 liters
1 cup	cup	0.237 L	0.237 liters

WEIGHT			
Unit	Abbrev.	Equivalent	Approximate
1 ton	ton	2000 lb.	2000 pounds
1 short ton	short ton	2000 lb.	2000 pounds
1 long ton	long ton	2240 lb.	2240 pounds
1 metric ton	metric ton	2204.6 lb.	2204.6 pounds
1 pound	lb.	16 oz.	16 ounces
1 ounce	oz.	28.35 g	28.35 grams
1 gram	g	0.035 oz.	0.035 ounces
1 kilogram	kg	2.205 lb.	2.205 pounds
1 milligram	mg	0.001 g	0.001 grams
1 microgram	µg	0.000001 g	0.000001 grams

NUMERICAL PREFIXES			
Prefix	Symbol	Factor	Approximate
10 ¹	deca	10	10
10 ²	hecto	100	100
10 ³	kilo	1000	1000
10 ⁶	mega	1,000,000	1 million
10 ⁹	giga	1,000,000,000	1 billion
10 ¹²	tera	1,000,000,000,000	1 trillion
10 ¹⁵	peta	1,000,000,000,000,000	1 quadrillion
10 ¹⁸	exa	1,000,000,000,000,000,000	1 quintillion
10 ²¹	zetta	1,000,000,000,000,000,000,000	1 sextillion
10 ²⁴	yotta	1,000,000,000,000,000,000,000,000	1 septillion

SI PREFIXES			
Prefix	Symbol	Factor	Approximate
10 ⁻¹	deci	0.1	0.1
10 ⁻²	centi	0.01	0.01
10 ⁻³	milli	0.001	0.001
10 ⁻⁶	micro	0.000001	0.000001
10 ⁻⁹	nano	0.000000001	0.000000001
10 ⁻¹²	pico	0.000000000001	0.000000000001
10 ⁻¹⁵	femto	0.000000000000001	0.000000000000001
10 ⁻¹⁸	atto	0.000000000000000001	0.000000000000000001
10 ⁻²¹	zepto	0.000000000000000000001	0.000000000000000000001
10 ⁻²⁴	yocto	0.000000000000000000000001	0.000000000000000000000001



Synopsis

Contains the conversions, tables and formulas used most by people at work, home or even vacationing.

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Customer Reviews

I was actually looking for a chart for cooking measures for liquid and dry without buying 5 or 6 of those metal ones for the fridge. This has most of what I was looking for and a lot of what I really don't need and some I don't understand. I sure hope it helps without going to ASK.COM when I have a question.

This covers -- for all standard systems -- temps, lengths, areas, energy (BTU, HP, J, Kw, etc) weights, volumes, lumber, nails, nails/screws/bolts, tornadic & Beaufort & hurricane scales, and a few others. Its 4 pages are on 2 double-sided pages, each plastic enclosed, and already punched for a 3 ring notebook. The Fahrenheit - Celsius conversion table goes from -40 F to 212 F degree by degree with accompanying C degrees. While I wish it had something similar for lengths and weights, that would have involved many, many more pages and a simple calculator will let you quickly find the answers with the conversions in these charts. For \$5, this is very worthwhile to help those of us living in the USA who converse with residents in other countries and who wish to communicate in units they'll understand and appreciate.

I collected ALL of these in the series and I am so glad I did. These charts have become incredibly helpful and educational for both my own studies and reference as an MT, as well as my children using them for general knowledge and school work. I would highly recommend and buy again.

Christmas hit, even for the old folks. Great reference chart. I got one for me and then purchased more for other family members. Quicker than google. Lots of great info and pretty handy overall. Love that it's laminated. I got the Math Fundamentals 1 Guide, too. We had a great "quiz fest" on Christmas Day!

I have a 14yr old that I home school and he is having trouble with Math. These charts are very detailed and self explanatory and I would encourage anyone struggling in Math to try these out. They really do help. The cost is very low and they deliver very very quickly!

Impressive! I carry it to college classes as an extra resource. Has every type of measurement you could ever imagine and conversions as well. Whether you are a scientist, business owner, contractor, a do-it-yourselfer, or a cook, you will love it like I do.

You can never have too many of these sheets. These are very popular with my fellow students. We pass them around. They are not too expensive so if they like what I bought they buy their own and I do the same if I like one of their's I buy one for myself.

I bought many of these cards (in different subjects) from and they were a GREAT help in nursing school and now as a Nurse I find I refer to them all the time. Recommend highly!

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