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Weights & Measures (Quickstudy: Academic)

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WEIGHTS & MEASURES

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BASIC MEASUREMENT SYSTEMS

of measurements is based on the metric system. The following table shows the relationship between the metric and U.S. systems.

	English	English	English
Distance	1 mile	1.609 kilometers (km)	0.621 miles (mi)
Length	1 foot	0.3048 meters (m)	12 inches (in)
Weight	1 pound (lb)	0.4536 kilograms (kg)	16 ounces (oz)
Volume	1 gallon (gal)	3.785 liters (L)	128 fluid ounces (fl oz)
Temperature	1 degree Fahrenheit (°F)	5/9 degrees Celsius (°C)	32 degrees Fahrenheit (°F)

LENGTH

Unit	English	English	English
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AREA

Unit	English	English	English
Area	1 square foot (sq ft)	0.0929 square meters (sq m)	144 square inches (sq in)
Area	1 square yard (sq yd)	0.8361 square meters (sq m)	1,296 square inches (sq in)
Area	1 square mile (sq mi)	2.59 square kilometers (sq km)	27,744,000 square feet (sq ft)
Area	1 acre	0.4047 hectares (ha)	43,560 square feet (sq ft)
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Area	1 square yard (sq yd)	0.8361 square meters (sq m)	1,296 square inches (sq in)
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Area	1 acre	0.4047 hectares (ha)	43,560 square feet (sq ft)

ENERGY

Unit	English	English	English
Energy	1 British Thermal Unit (BTU)	1,055 joules (J)	778 foot-pounds (ft-lb)
Energy	1 kilowatt-hour (kWh)	3,600 kilojoules (kJ)	2,645,500 foot-pounds (ft-lb)
Energy	1 joule (J)	0.7375 foot-pounds (ft-lb)	0.0009478 British Thermal Units (BTU)
Energy	1 foot-pound (ft-lb)	1.356 joules (J)	0.001285 British Thermal Units (BTU)

VOLUME (LIQUID)

Unit	English	English	English
Volume	1 gallon (gal)	3.785 liters (L)	128 fluid ounces (fl oz)
Volume	1 quart (qt)	0.946 liters (L)	32 fluid ounces (fl oz)
Volume	1 pint (pt)	0.473 liters (L)	16 fluid ounces (fl oz)
Volume	1 cup (cup)	0.237 liters (L)	8 fluid ounces (fl oz)
Volume	1 fluid ounce (fl oz)	0.0296 liters (L)	1 fluid ounce (fl oz)
Volume	1 drop	0.05 milliliters (mL)	0.05 milliliters (mL)
Volume	1 drop	0.05 milliliters (mL)	0.05 milliliters (mL)
Volume	1 drop	0.05 milliliters (mL)	0.05 milliliters (mL)
Volume	1 drop	0.05 milliliters (mL)	0.05 milliliters (mL)

VOLUME (DRY)

Unit	English	English	English
Volume	1 bushel (bu)	35.237 liters (L)	1.28 bushels (bu)
Volume	1 peck (pk)	8.809 liters (L)	0.32 bushels (bu)
Volume	1 quart (qt)	0.946 liters (L)	32 fluid ounces (fl oz)
Volume	1 pint (pt)	0.473 liters (L)	16 fluid ounces (fl oz)
Volume	1 cup (cup)	0.237 liters (L)	8 fluid ounces (fl oz)

WEIGHT

Unit	English	English	English
Weight	1 ton (short)	2,000 pounds (lb)	907.185 kilograms (kg)
Weight	1 ton (long)	2,240 pounds (lb)	1,016.047 kilograms (kg)
Weight	1 ton (metric)	1,000 kilograms (kg)	2,204.623 pounds (lb)
Weight	1 pound (lb)	0.4536 kilograms (kg)	16 ounces (oz)
Weight	1 ounce (oz)	0.0296 kilograms (kg)	1 fluid ounce (fl oz)
Weight	1 gram (g)	0.001 kilograms (kg)	0.035 ounces (oz)
Weight	1 milligram (mg)	0.000001 kilograms (kg)	0.000035 ounces (oz)
Weight	1 microgram (µg)	0.000000001 kilograms (kg)	0.000000035 ounces (oz)
Weight	1 nanogram (ng)	0.000000000001 kilograms (kg)	0.00000000035 ounces (oz)
Weight	1 picogram (pg)	0.000000000000001 kilograms (kg)	0.0000000000035 ounces (oz)

NUMERICAL PREFIXES

Prefix	Symbol	Value	Value
1000	k	1,000	10 ³
100	h	100	10 ²
10	da	10	10 ¹
1		1	10 ⁰
0.1	d	0.1	10 ⁻¹
0.01	c	0.01	10 ⁻²
0.001	m	0.001	10 ⁻³
0.0001	µ	0.0001	10 ⁻⁴
0.00001	n	0.00001	10 ⁻⁵
0.000001	p	0.000001	10 ⁻⁶
0.0000001	f	0.0000001	10 ⁻⁷
0.00000001	a	0.00000001	10 ⁻⁸
0.000000001	z	0.000000001	10 ⁻⁹
0.0000000001	y	0.0000000001	10 ⁻¹⁰
0.00000000001	r	0.00000000001	10 ⁻¹¹
0.000000000001	q	0.000000000001	10 ⁻¹²
0.0000000000001	s	0.0000000000001	10 ⁻¹³
0.00000000000001	t	0.00000000000001	10 ⁻¹⁴
0.000000000000001	u	0.000000000000001	10 ⁻¹⁵
0.0000000000000001	v	0.0000000000000001	10 ⁻¹⁶
0.00000000000000001	w	0.00000000000000001	10 ⁻¹⁷
0.000000000000000001	x	0.000000000000000001	10 ⁻¹⁸
0.0000000000000000001	y	0.0000000000000000001	10 ⁻¹⁹
0.00000000000000000001	z	0.00000000000000000001	10 ⁻²⁰



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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