Metric SI Prefixes

International standard units, known as **SI units** *(The International System of Units)*, include a complete **metric system**. Its major advantage is the *ease of conversion* due to the compatibility with our decadic number system. Multiplication numbers, exponents, prefixes, case sensitive abbreviations and some examples are listed below

(see also *Metric Prefixes:* Appendix A, Tab. A.3;   http://en.wikipedia.org/wiki/Metric_prefix):

exp	Multiplication number	=	$10^{exponent}$	prefix	abbr.	example	abbr.
24	1,000,000,000,000,000,000,000,000	=	10^{24}	yotta-	Y-		
21	1,000,000,000,000,000,000,000	=	10^{21}	zetta-	Z-		
18	1,000,000,000,000,000,000	=	10^{18}	exa-	E-	exahertz	EHz
15	1,000,000,000,000,000	=	10^{15}	peta-	P-	petameter	Pm
12	1,000,000,000,000	=	10^{12}	tera-	T-	terawatt	TW
9	1,000,000,000	=	10^{9}	giga-	G-	gigagram	Gg
6	1,000,000	=	10^{6}	mega-	M-	megawatt	MW
3	1,000	=	10^{3}	kilo-	k-	kilogram	kg
2	100	=	10^{2}	hecto-	h-	hectopascal	hPa
1	10	=	10^{1}	deka-	da-	dekalumen	dalm
0	1	=	10^{0}	one		gram	g
-1	0.1	=	10^{-1}	deci-	d-	decibel	dB
-2	0.01	=	10^{-2}	centi-	c-	centimeter	cm
-3	0.001	=	10^{-3}	milli-	m-	millimeter	mm
-6	0.000 001	=	10^{-6}	micro-	µ	micrometer	µm
-9	0.000 000 001	=	10^{-9}	nano-	n-	nanometer	nm
-12	0.000 000 000 001	=	10^{-12}	pico-	p-	picofarad	pF
-15	0.000 000 000 000 001	=	10^{-15}	femto-	f-	femtoampere	fA
-18	0.000 000 000 000 000 001	=	10^{-18}	atto-	a-	attocoulomb	aC
-21	0.000 000 000 000 000 000 001	=	10^{-21}	zepto-	z-		
-24	0.000 000 000 000 000 000 000 001	=	10^{-24}	yocto-	y-		