TAKE NOTICE : Any FORMULA substitution may only be done with MKS Values.

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M K S SYSTEM

meter

Earth's circumference poles is 40008km (40008000m)
At equator 67km more.

Definition: 1 m is the distance light travels through a vacuum in exactly 1/299792458 seconds.

kg

1 liter water is 1kg
$1m^3$ is 1000 liter
1000 kg 1 tonne
example: 6 tonne truck has $6m^3$ space so carries 6 tonne.

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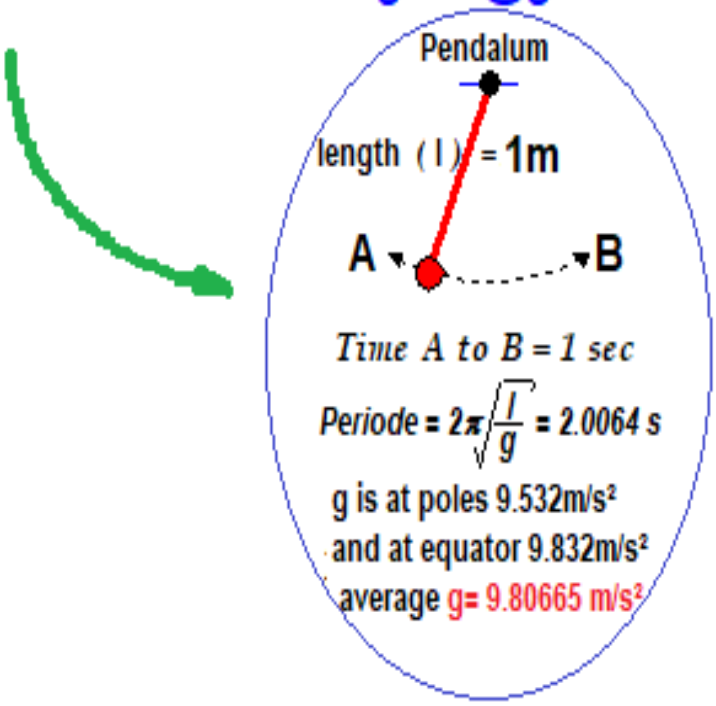
seconds

SECOND
9192631770 waves
Caesium-133 atom.

Earth takes 24 Hours to make one revolution called a day. 1 hour has 3600 seconds .



Time A to B = 1 sec

Periode $= 2\pi\sqrt{\frac{l}{g}} = 2.0064\ s$

g is at poles 9.532m/s²
and at equator 9.832m/s²
average g= 9.80665 m/s²

Abbreviations'

1.	Y:	10^{24} yotta	y:	10^{-24}	yocto
2.	Z:	10^{21} zetta	z:	10^{-21}	zepto
3.	E:	10^{18} exa	a:	10^{-18}	atto
4.	P:	10^{15} peta	f:	10^{-15}	femto
5.	T:	10^{12} tera	p:	10^{-12}	pico
6.	G:	10^{9} giga	n:	10^{-9}	nano
7.	M:	10^{6} mega	μ:	10^{-6}	micro
8.	k:	10^{3} kilo	m:	10^{-3}	milli
9.	h:	10^{2} hecto	c:	10^{-2}	centi
10.	da:	10^{1} deka	d:	10^{-1}	deci

CONSTANTS TABLE

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Name	Abbrev	Value	Unit
Avogardo	Na	6.02 E +26	kg^{-1}
Boltzman	k	1.38 E -23	JK^{-1}
Moll-Volume	Vmol	22.4141	m^3kgmol^{-1}
Gas Costant	R	8.31457	$kJkgmolK^{-1}$
Std.Temperature	Std.T	273.15	K
Std.pressure	Std.P	101.325	kPa
Stephan-Boltzman	σ	5.67051 E -8	Wm^{-2}
Earth gravitation	g	9.80665	ms^{-2}
Gravitation force	G	6.67259 E -11	Nm^2kg^{-2}
Planck's Constant	h	6.6260755 E -34	Js
Wein's Constant	σ_w	2.898 E -2	mK
Speed of Light	c	2.99792458 E 8	ms^{-1}
Electron Charge	q	1.60217733 E -19	C
Electron mass	M_e	9.1093897 E -31	kg
Proton mass	M_p	1.6726231 E -27	kg
Neutron mass	M_n	1.6749 E -27	kg
Hydrogen mass	M_H	1.673534 E -27	kg
Permitivity of vacuum	μ_0	4π E -7	$Hm^{-1}Turns^{-2}$
Emmittance of vacuum	ε_0	8.85 E -12	Fm^{-1}
M_{Earth}	M_{Earth}	5.9736 E 24	kg
M_{Sun}	M_{Sun}	1.988377 E 30	kg
M_{Moon}	M_{Moon}	7.349 E 22	kg
Earth-Sun Distance	AU	1.4959787 E 11	m
Earth-Moon Distance	D_{EM}	3.844 E 8	m