FRANKLIN MILLER, Jr. - College PHYSICS - 2nd ed. (pg.6) $[velocity] = [L]/[T]$ — 20/06/2018

- SISTEMA ABSOLUTO DE UNIDADES: [M] MASS   [T] TIME   pg.2: "ANY SCIENTIST...

$V = \pi r^2 h$ [L] LENGTH   MUST COMBINE INSPIRATION,

$V = [L^2][L] = [L^3]$ INTUITION, CONCENTRATION,

$V = (\pi/4) d^2 h$ AND HARD WORK IF HE IS

- METER - Kilogram - SECOND (MKS) system   TO ADVANCE KNOWLEDGE."

  ↳ 1960 - A METER = 1650 763.73 WAVELENGTHS OF A CERTAIN ORANGE

  LINE IN THE SPETRUM OF THE KRYPTON ISOTOPE OF ATOMIC MASS

  NUNBER 86.

  - Kilometer = 1000 m   centimeter = $\frac{1}{100}$ m   millimeter = $\frac{1}{1000}$ m

  - Kilogram : " THE MASS OF A BODY IS A QUANTITATIVE MEASURE

  OF ITS INERTIA.

  ↳ UNIT : MASS OF A CERTAIN BLOCK OF PLATINUM-IRIDIUM ALLOY

  KNOW AS THE "INTERNATIONAL PROTOTYPE KILOGRAM"

  " THE WEIGHT IS THE FORCE OF GRAVITY UPON MASS.

TERA	T	$\times 10^{12}$	
GIGA	G	$\times 10^9$	1 GIGA YEARS = 10^9 YEARS
MEGA	M	$\times 10^6$	1 MEGATON (TNT STRENGTH OF NUCLEAR WEAPON) = 10^6 tons
Kilo	k	$\times 10^3$	1 Kilogram = 1000 g
DECI	d	$\times 10^{-1}$	1 DECIMETER = 0,1 m
CENTI	c	$\times 10^{-2}$	1 CENTIMETER = 0,01 m
MILLI	m	$\times 10^{-3}$	1 MILLIMETER = 0,001 m
MICRO	μ	$\times 10^{-6}$	1 MICROVOLT = 10^{-6} V
NANO	n	$\times 10^{-9}$	1 NANOSECOND = 10^{-9} s
PICO	p	$\times 10^{-12}$	1 PICOFARAD = 10^{-12} F
FEMTO	f	$\times 10^{-15}$	1 FEMTOMETER (APROX. THE SIZE OF A PROTON) = 10^{-15} m
ATTO	a	$\times 10^{-18}$	

pg.8: FRENCH REVOLUTION (AGE OF REASON): RATIONAL BASIS FOR

  ENERY ASPECT OF LIFE.

- SECOND = 1/86 400 OF A MEAN SOLAR DAY $60 \times 60 \times 24 = 1$

  ↳ BASED ON EARTHS ROTATION AROUND ITS ON AXIS.

  ↳↳ 1955 : SECOND = 1/31 556 925.9747 OF A MEAN TROPICAL YEAR

  ↳↳↳ CESIUM clock 1964 : "atomic clock"

- [T] AND [L] CAN NOW BE DEFINED IN TERMS OF ATOMIC

  behavior: the wavelength of a certain light, and the

  FREQUENCY OF CERTAIN ATOMIC VIBRATIONS.