3/28/2019	Units					
	Every measurement: #-UNIT					
	er: 12 Kgs					
	83 s					
	4 m					
	lots of unis.					
	length: cm, in, ft, mm, mi, m, Km, yd, parsecs					
	Chains, furlouss, rode, light years,					
	Science uses the International System (SI) units					
	Quantity Unit Symbol					
	length meter m					
-	mass Kilogram Kg Lime second s					
	temperature Kelvin K					
	amount of substance mole mol					
	electrical current ampere A					
	luminous intensity randela col					
	If these units are too big/small, we use an SI prefix					
	If these units are too big/small, we use an SI prefix to modify!					

Prefix	Symbol	Multipl	ier	
	U			
tera	T	× 1012		
	6	×109		
Mlga	M	×106		
giga mega Kilo	k	v 10 <sup>3</sup>		
deci	d	× 10-1		
centi	C	× 10-2		
milli	M	x 10 <sup>-3</sup>	· · · · · · · · · · · · · · · · · · ·	
micro	u	× 10-6		
nano	'n	×10-9		
Pico.	Р	× 10-12		
	A.			
	G = 109			
	2.5x109s =	2.565	(av'g human lifespan!)	
	p=10-12	Lucies es		
	59.4 × 10	m = 59.4 pm	(radius of H-atom)	
		1		

Derived units
Beiles Mail 12
-no SI unit for volume! Can desire one!
Jan John John John John John John John Joh
ey:
cube $V=L^3= m\times m\times m$ $= m^3 $ Im derived
$=  m^3 $
Im decised
unit for volume!
lab: m³ is B161!
lab: m³ is B161! - could use pregises!
-common to use :
10cm V= 23 = 1,000 cm3 = 1 Liter = 1 L
10cm
(m3 = 1000 L = 10-3 L = 1 mL
1,000
same! Icc
Density mass (depends on amount EXTENSIVE,
$d = \frac{m}{m}$ properties
density J volume (depends on ")
amount
doesn't depend on amount. The TENCIVE acception
INTENSIVE property



groups of engineers used different

units.





