Physics: Developmental Module Equations

List of Physical Constants

Universal Gravitational Constant	G	
Acceleration due to gravity	g	
Speed of light in a vacuum	с	
Coulomb's Law constant		
charge on electron	е	

Electricity

$F_e = electrostatic force$	2

- *I = current*
- k = Coulomb's Law constant
- *P* = electrical power
- q = charge
- *R* = *resistance*
- *R_{eq}* = equivalent resistance
- *r* = distance between centers
- t = time
- V = voltage = potential difference
- W = Work (electrical energy)

Parallel Circuits

Series Circuits



- c = speed of light in a vacuum
- *f* = *frequency*
- *n* = index of refraction
- T = period
- v = velocity
- λ = wavelength



Physics: Developmental Module Equations

Mechanics			
	_		
	_		
	—		



Physics: Developmental Module Equations

KE = kinetic energy		
m = mass		
p = momentum		
P = power		
PE = potential energy		
<i>PE_s</i> = potential energy stored in a spring		
r = radius/distance between centers		
t = time interval		
TME = totalmechanicalenergy		
v = velocity/speed		
= average velocity/average speed		
W = work		
x = displacement/distance change in spring length from equilibrium position		
Δ = change		
ϑ = angle		
μ = coefficient of friction		

