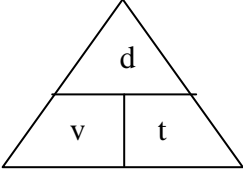
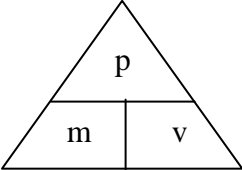
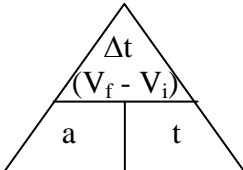
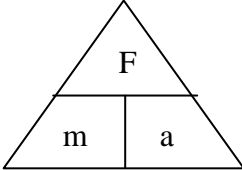
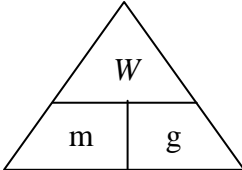
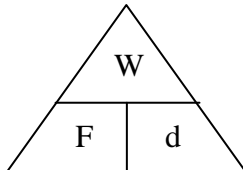
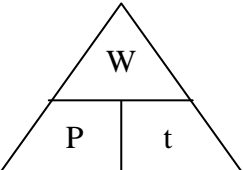
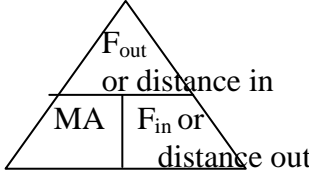
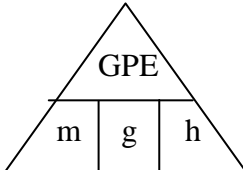
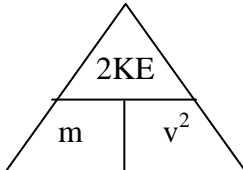
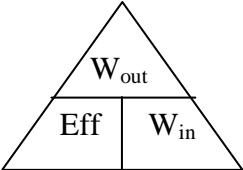
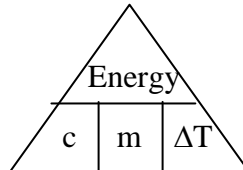
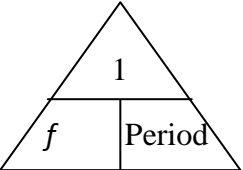
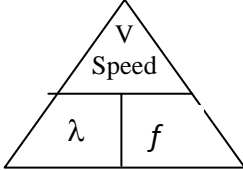
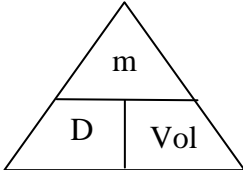


Physical Science 1st Semester
Formula/Equation Triangles and Information

 <p>Speed/Velocity</p>	 <p>Momentum</p>	 <p>Acceleration</p>
 <p>Force</p>	 <p>Weight</p>	 <p>Work</p>
 <p>Power</p>	 <p>Mechanical Advantage</p>	 <p>G. Potential Energy</p>
 <p>Kinetic Energy</p>	 <p>Efficiency</p>	 <p>Specific Heat</p>
 <p>Frequency/Period</p>	 <p>Wave Speed</p>	 <p>Density</p>
<p>speed = distance/time distance = speed*time time = distance/speed Momentum = mass*velocity mass = momentum/velocity velocity = momentum/mass G. Potential E = mass*gravity*height Height = GPE/mass*gravity Mass = GPE/height*gravity Frequency = 1/period Period = 1/Frequency</p>	<p>acceleration = $\Delta v(V_f - V_i) \backslash \text{time}$ Δv = acceleration*time time = $\Delta v/\text{acceleration}$ Force = mass*acceleration acceleration = Force/mass mass = Force/acceleration Kinetic E = $\frac{1}{2} \text{mass} * \text{Velocity}^2$ mass = $2\text{Kinetic E}/\text{Velocity}^2$ Velocity = $\sqrt{2\text{Kinetic E}/\text{mass}}$ Wavelength = velocity/frequency Velocity = wavelength*frequency</p>	<p>Work = Force*distance Force = Work/distance distance = Work/Force Power = Work/time Work = Power*time time = Work/Power Efficiency = Work Out/Work In Wout = Eff*Work In Work In = Wout/Efficiency Density= mass/volume Period = wavelength/velocity</p>
<p>Mechanical Advantage = Output Force/Input Force Output Force = Mechanical Advantage*Input Force Input Force = Output Force/Mechanical Advantage</p>	<p>Mechanical Advantage = Input distance/Output Distance Input Distance = Mechanical Advantage*Output Distance Output Distance = Input Distance/Mechanical Advantage</p>	
<p>Specific Heat = Energy/mass*ΔTemperature Energy = Specific H*mass*ΔTemperature</p>	<p>Temperature = Energy/Specific Heat*mass</p>	
<p>Temperature Conversions: °F = (9/5 °C) + 32</p>	<p>°C = 5/9 (°F -32)</p>	<p>K = °C + 273</p>

Units

s- m/s

t- sec

d- meter, km

v- m/s; km/h

V_i - m/s; km/h

V_f - m/s; km/h

a- m/s^2

m- kg; g

g- $9.8m/s^2$

F- Newton (N) = $kg*m/s^2$

p- $kg*m/s$

W- Joules (J)= $N*m$

P-watts (W)

h-meters(m)

GPE- Joules (J)= $N*m$

KE- Joules (J)= $N*m$

λ -meters

f- hertz(Hz)

D- g/mL or g/cm^3

V (vol)- mL or cm^3