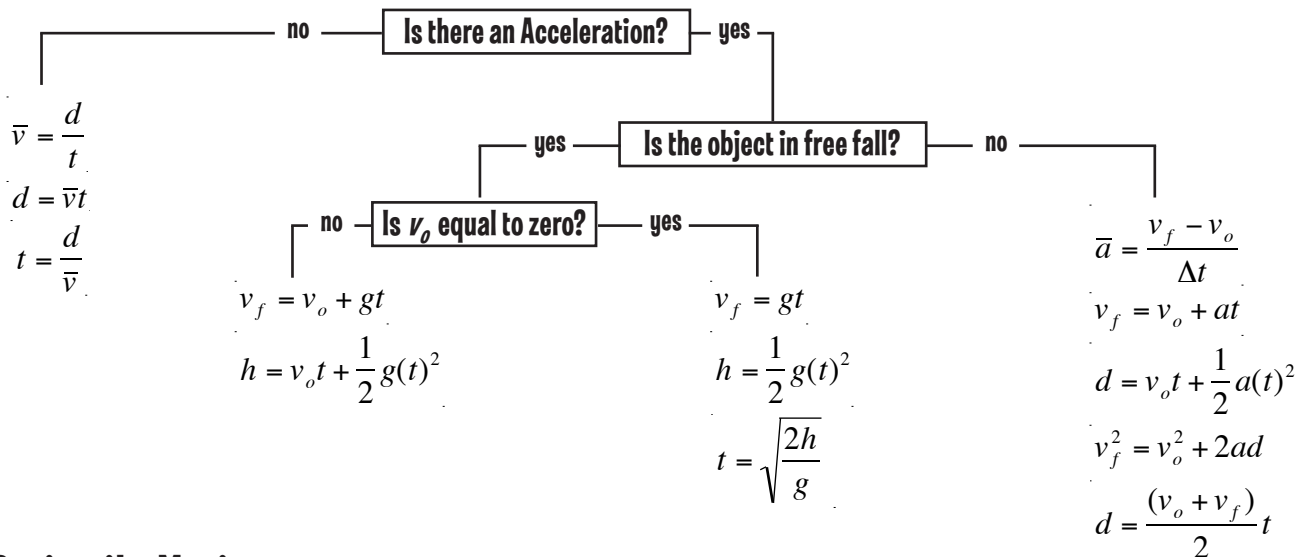


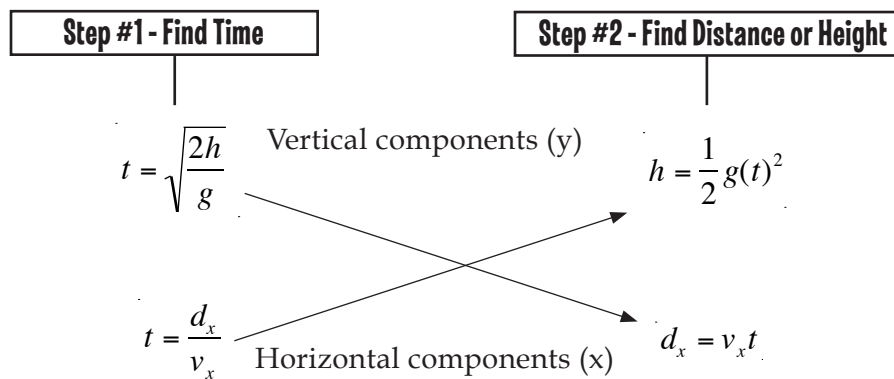
Physics Formula Sheet

2013-2014

Linear Motion



Projectile Motion



Vectors

Pythagorean theorem $c^2 = a^2 + b^2$

Newton's Laws

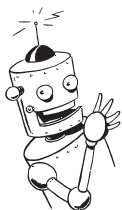
Weight (N) $W = mg$

Mass (kg) $m = \frac{W}{g}$

Newton's Second Law $F_{net} = ma$ $a = \frac{F_{net}}{m}$

Newton's Third Law $F_{AB} = -F_{BA}$

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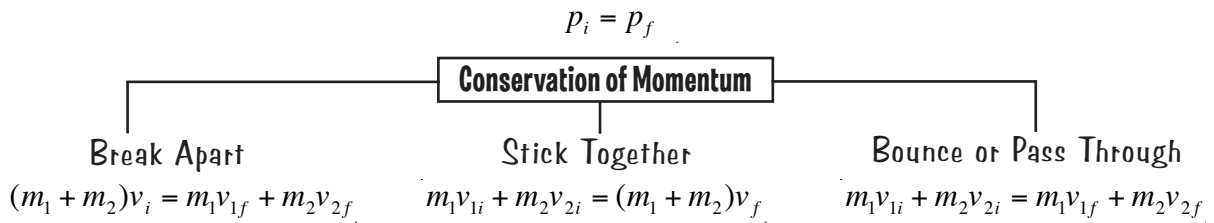
Physics Formula Sheet

2013-2014

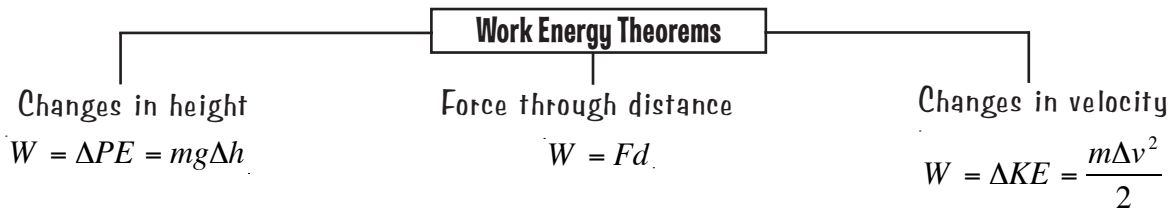
Impulse and Momentum

Momentum (kg m/s)	$p = mv$		
Change in Momentum (kg m/s)	$\Delta p = m\Delta v$	$\Delta p = m(v_f - v_o)$	
Impulse (N s)	$J = Ft$		
Impulse - Momentum	$J = \Delta p$	$Ft = m\Delta v$	$Ft = m(v_f - v_o)$

Conservation of Momentum



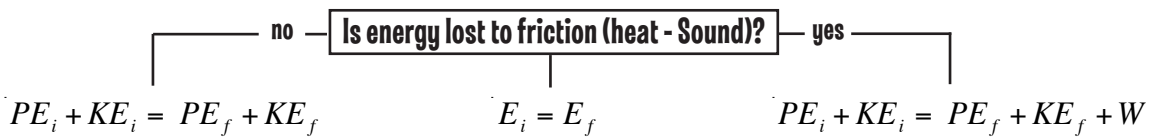
Work Energy (J)



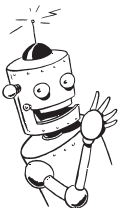
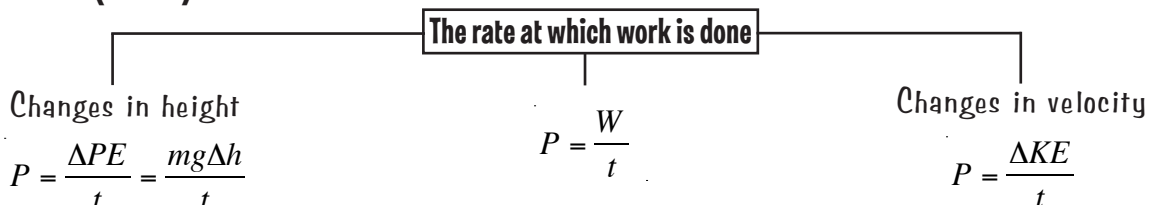
Types of Energy (J)



Conservation of Energy (J)



Power (watt)



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