

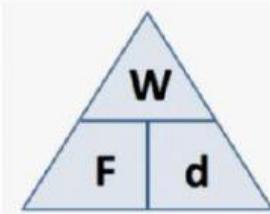
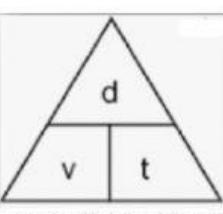
## FORCE & MOTION FORMULAS & UNITS

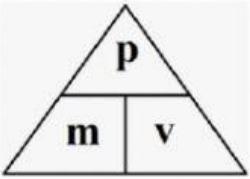
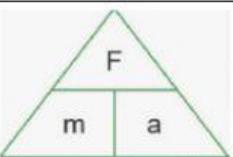
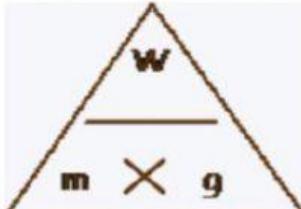
Drag the formula and unit to the correct boxes.

	NAME	FORMULA	UNITS
1.	force		
2.	velocity		
3.	acceleration		
4.	weight		
5.	speed		

6. momentum		
7. work		
8. kinetic energy		
9. gravitational potential energy		

## FORMULAS

 <p>force times distance <math>w=Fd</math></p>	 <p>distance divided by time  <math>s=d/t</math></p>	$KE = \frac{1}{2}mv^2$ <p>one half of mass times velocity squared</p>
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 <p>mass times velocity <math>p=m*v</math></p>	 <p>mass times acceleration <math>F=ma</math></p>	$a = \frac{v_f - v_i}{t}$ <p>final velocity minus initial velocity divided by time</p>
 <p>mass times gravity <math>F_g=m*g</math> (<math>g=9.8</math>)</p>	$E_p = mgh$ <p><math>E_p</math> = Potential Energy  <math>m</math> = Mass  <math>g</math> = Gravitational Field Strength  <math>h</math> = Vertical Height</p> <p>mass times gravity times height <math>GPE = m*g*h</math></p>	<p><b>ONE of these formulas is used 2x</b></p>

## UNITS

units are newtons (N)	units are meters per second (m/s)	units are kilograms times meters per second ( $kg*m/s$ )
units are joules (J)	units are meters per second squared ( $m/s^2$ )	<b><i>certain units are duplicated</i></b>