FORCE & MOTION FORMULAS & UNITS

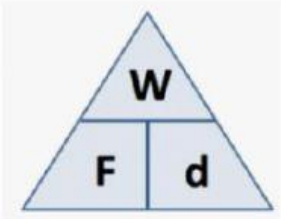
Drag the formula and unit to the correct boxes.

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

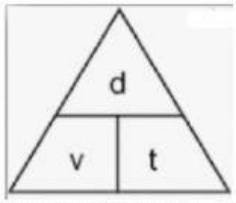
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6.	**momentum**		
7.	**work**		
8.	**kinetic energy**		
9.	**gravitational potential energy**		

FORMULAS



force times distance w=Fd

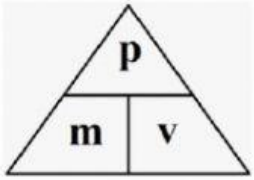
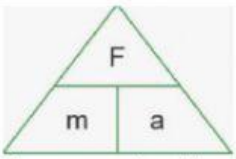
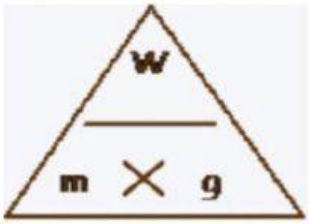


distance divided by time
s=d/t

$$KE = \frac{1}{2}mv^2$$

one half of mass times velocity squared

LIVEWORKSHEETS

 mass times velocity p=m*v	 mass times acceleration F=ma	$a = \frac{vf - vi}{t}$ final velocity minus initial velocity divided by time
 mass times gravity F_g=m*g (g=9.8)	$E_p = mgh$ E_p = Potential Energy m = Mass g = Gravitational Field Strength h = Vertical Height mass times gravity times height GPE = m*g*h	***ONE of these formulas is used 2x***

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)	***certain units are duplicated***

LIVEWORKSHEETS