PHYSICAL SCIENCE 3" X 5" CARD

A	X	Z
Atomic Mass	Element	Atomic Number
Number of Protons and Neutrons	Element Symbol	Number of Protons

$m = {}^{1}/_{1{,}000}$

$c = {}^{1}/_{100}$

$k = 1{,}000$

$\vec{v} = \frac{\Delta x}{\Delta t}$

$\vec{a} = \frac{\Delta \vec{v}}{\Delta t}$

$d = \frac{1}{2} g t^2$

$\vec{F} = m\vec{a}$

$W = mg$

$E = hf$

$W_{boy}\overrightarrow{v_{boy}} = W_{girl}\overrightarrow{v_{girl}}$

$\vec{W} = \overrightarrow{Fd}$

$KE = \frac{1}{2} m\vec{v}^2$

$PE = m\overrightarrow{ad}$

$\vec{v} = \sqrt{2g\vec{h}}$

$\vec{P} = \frac{\vec{W}}{t}$

$T_k = T_C + 273$

$Heat = SH \cdot m \cdot \Delta t$

$Heat = L_f m$

$Heat = L_v m$

$\frac{P_1}{P_2} = \frac{T_1}{T_2}$

$v = f\lambda$

$T = \frac{1}{f}$

$n = \frac{c}{c_m}$

$V = IR$

$P = VI$

Quantity	*Unit*	*Symbol*	*Equivalent Units*
Force	newton	N	$Kg{\cdot}m/s^2$
Work	joule	J	N·m
Energy	joule	J	N·m
Power	watt	W	J/s
Volts	volt	V	work/charge
Current	amps	A	charge/time
Resistance	ohms	Ω	volts/amps

Quantity	Symbol	Mass	Charge
Electron	e	0 AMU	-1
Neutron	n	1 AMU	0
Proton	p	1 AMU	+1