Physical Science Formulas

Don't forget the **UNITS**, numbers need last names!

What are you looking for?	Units	Formula
Density	g/cm³	Density = $\dfrac{\text{Mass (g)}}{\text{Volume (cm}^3)}$ D=m/v
Volume of a Regular Solid	mm³, cm³ m³	Volume = Height x Length X Width V=hlw
Speed	m/s	Speed = $\dfrac{\text{Distance (m)}}{\text{Time (s)}}$ S=d/t
Acceleration	m/s²	Acceleration= $\dfrac{\text{Final (m/s) – Original Velocity(m/s)}}{\text{Time (s)}}$
Momentum	Kg(m/s)	Momentum = Mass (kg) x Velocity(m/s)
Force	Newtons	Force = Mass(kg) x Acceleration(m/s²) F=ma
Weight	Newtons	Weight = Mass(kg) x Acceleration due to gravity (9.8 m/s²) W=mg
Pressure	N/cm²	Pressure = $\dfrac{\text{Force (N)}}{\text{Area(cm}^2)}$ P=f/a
Work	Joule	Work = Force(N) x Distance(m) W=fd

What are you looking for?	Units	Formula
Power	**watt**	Power = $\dfrac{\text{Work(J)} \quad (\textbf{or} \text{ force x distance})}{\text{Time(s)}}$ P=w/t
Ohm's Law	**amps**	Amperes(current) = $\dfrac{\text{Volts}}{\text{Ohms(resistance)}}$ I=V/R
Electric Power	**watts**	Electric Power = Voltage x Current P=VI (Watts= Volts x amps)
Electrical Energy	**kwh**	Electrical Energy = Power(Kw) x Time(h) E= Pt
Wave Speed	**m/s**	Speed= Frequency(Hz) x Wavelength(m)