Physical Science Formulas

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

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

What are you looking for?	Units	Formula
Power	**watt**	Power = $\frac{\text{Work(J)}}{\text{Time(s)}}$ (**or** force x distance) P=w/t
Ohm's Law	**amps**	Amperes(current) = $\frac{\text{Volts}}{\text{Ohms(resistance)}}$ 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)