Physics Formulas

Mechanics

- Force: F = ma
- Kinetic Energy: $KE = \frac{1}{2}mv^2$
- Potential Energy: PE = mgh
- Momentum: p = mv
- Work: $W = Fd \cos \theta$

Electricity & Magnetism

- Ohm's Law: V = IR
- ullet Coulomb's Law: $F=k\cdot rac{\mathrm{k}(q_{1\,2}/r^2)}{\gamma^2}$
- Magnetic Force: $F = qvB\sin\phi$
- Electric Power: P = IV

Thermodynamics

- First Law: $\Delta U = Q W$
- Ideal Gas Law: PV = nRT