Power

- Rate of change of energy or at which work is done

- $P = \frac{\Delta E}{\Delta t}$, amount of energy transformed in time Δt

- $P = \frac{W}{\Delta t}$, amount of work done in time Δt

- $P = \frac{W}{\Delta t} = \frac{F_x \Delta x}{\Delta t} = F_x \frac{\Delta x}{\Delta t} = Fv$, rate of energy transfer by *F* acting on object travelling at *v*

- 1 Watt (W) = 1 Joule/second

- 1 Horsepower (Hp) = 745 W