



$$P = VI$$

$$I = \frac{V}{R} = \text{current in Amps}$$

$$I (\text{AMPS}) = \frac{\text{COULOMBS}}{\text{SEC}}$$

$$V = \text{VOLT} = IR$$

$$V (\text{VOLTS}) = \frac{\text{Joule}}{\text{COULOMBS}}$$

$$P = \frac{W (J)}{\Delta t (s)}$$

$$(V)(I) = J/s$$

$$\left[ \frac{\text{Joule}}{\text{COULOMBS}} \right] \left[ \frac{\text{COULOMBS}}{\text{SEC}} \right]$$

$$P = IV \Rightarrow \frac{5 \text{ WATT}}{1.5 \text{ V}} = I \left( \frac{1.5 \text{ V}}{1.5 \text{ V}} \right) = 3.33 \text{ A}$$

$$V = IR = \left[ \frac{\text{JOULE}}{\text{COULOMB}} \right]$$

$$(A) = I = \frac{V}{R}$$

↑ unit of current

COULOMB  
s

$$\left( \frac{\cancel{\text{COULOMB}}}{\text{s}} \right) \left( \frac{\text{JOULE}}{\cancel{\text{COULOMB}}} \right) = \text{Watt} \rightarrow \text{Power}$$

$$P = (I) (V)$$