Physics Semester 2 Notes

Syllabus dot point	Information
The amount of power is related to the rate at which energy is transformed	
Explain that power is the rate at which energy is transformed from one form to another	Power is the rate at which energy is transferred from one form to another, in other words, it can be said as being the rate at which energy is supplied to a device. The following equation, describes power: 1. Power = Work/Time or P = W/t 2. Power = Energy/Time or P = E/t In this case, energy is measured in joules, time is measure in seconds and power is measure in joules per second, or watts. E.g. Battery generating 12W transforms or converts 12 joules of chemical energy in 1 second.
Identify the relationship between power, potential difference and current	From the definition of voltage (V = E/q), energy is equal to the voltage multiplied by charge. In addition, current is defined from (I = q/t), where charge equals to current multiplied by time. Using all this, we can gather that: $V \times I = \frac{\text{Energy}}{\text{Coulomb}} \text{ times } \frac{\text{Coulomb}}{\text{Time}} = \frac{\text{Energy}}{\text{Time}} = P$ Therefore power is equal to voltage multiplied by current: P = VI Where: - P is power measured in joules per seconds, or watts - V is the potential difference (voltage), which is energy per coulomb used, passing through a resistor - I is the current, where it is coulombs of charge per second, passing through a resistor
Identify that the total amount of energy used depends on the length of time the current is flowing and can be calculated using: Energy = VIt	Since power is joules per second, the total energy can be found by multiplying power formula by time (t), where the following shows: $P \times t = \frac{\text{Energy}}{t} \times t = \text{Energy}$ Since P = VI, therefore Energy = VIt (E = VIt) Ohm's Law Wheel:

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