Ohm's Law - Notes 6

$$\text{Voltage [potential difference]} = \frac{PE}{\#\text{ of charges}}$$

What	Unit	Symbol
Voltage	volt(v)	V
Current	ampere(A)	I
Resistance	ohm (Ω)	R

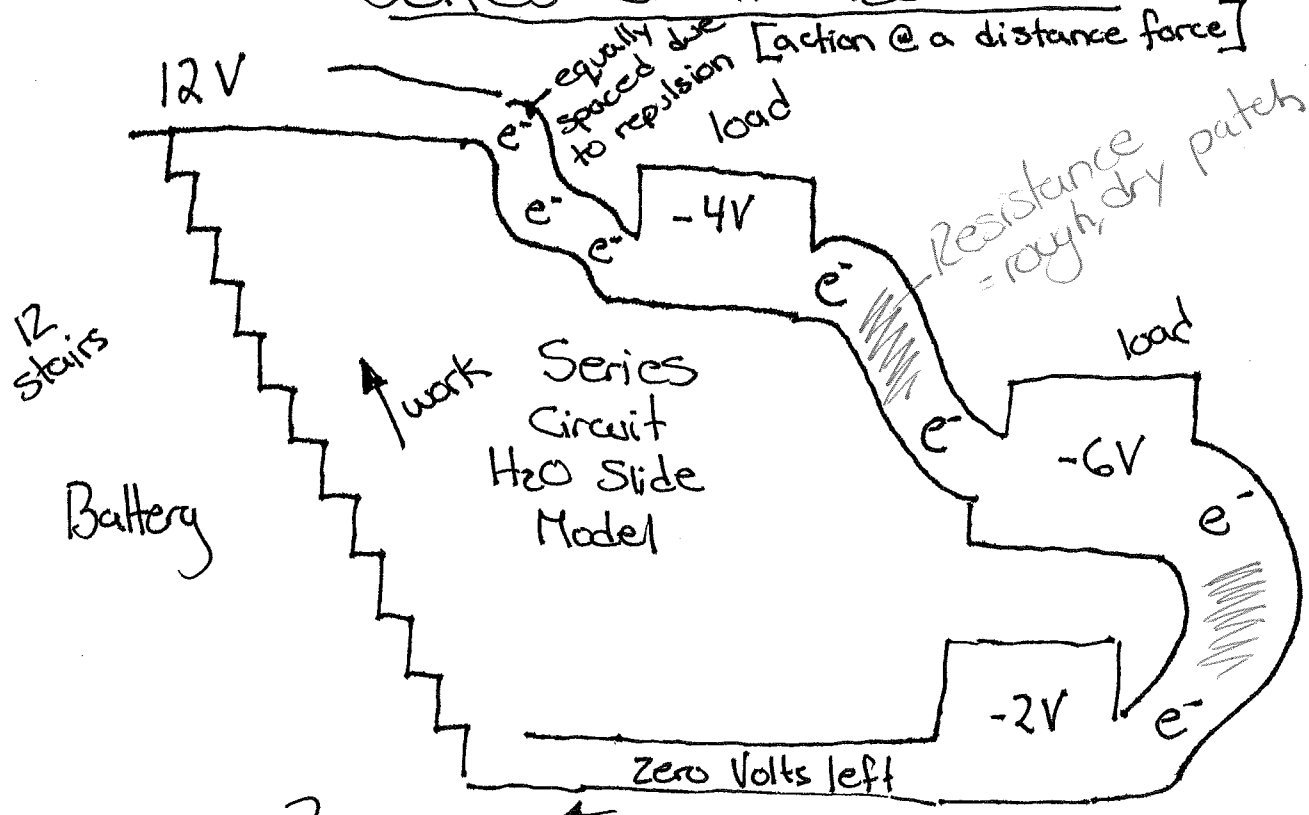
Ohm's Law

$$\boxed{V = IR} \quad \text{or} \quad \frac{V}{R} = I \quad \text{or} \quad \frac{V}{I} = R$$

Example: Current in circuit = 1.5A
Potential difference = 12 V
What is the Resistance

$$R = \frac{V}{I} = \frac{12V}{1.5A} = 8\,\Omega$$

Series Circuit H_2O Slide



* Series *
only 1 path for e^- to flow

Resistance in Series ↓ current
Current is constant in Series
Voltage ↓ over the course of the circuit, as it is transformed by each load.