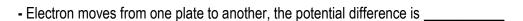
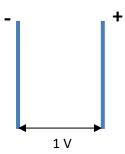
CONCEPT: THE ELECTRONVOLT

• Suppose two plates of equal & opposite charge have a potential difference of 1V







• 1 eV is called an ELECTRONVOLT

$$\rightarrow$$
 1 eV = $(1.6 \times 10^{-19} \text{C})(1\text{V}) = 1.6 \times 10^{-19} \text{J}$

- Electronvolt = Change in potential energy of ONE electron through ONE volt.
- Just a different unit of energy for small charges!

EXAMPLE: What is the speed of an electron with 150 eV of kinetic energy?