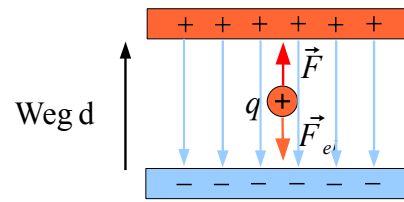


$$W = E_{pot,1} - E_{pot,0} = q \cdot \varphi_1 - q \cdot \varphi_0 = q \cdot (\varphi_1 - \varphi_0) = q \cdot U$$



$$W = q \cdot E \cdot d$$

$$q \cdot U = q \cdot E \cdot d \rightarrow E = \frac{U}{d}$$