

A photon is a quantum of electromagnetic radiation.

Planck Constant:
 $6.63 \times 10^{-34} \text{ Js}$

Photoelectric Effect

$$E = h \times f$$

$$f = \frac{v}{\lambda}$$

$$\text{Intensity} = \left(\frac{N}{t}\right) \left(\frac{E}{A}\right)$$

Intensity \propto Current

$$\frac{1}{2} m v_{max}^2 = h f - \phi$$

Work Function Energy
 \rightarrow Threshold Frequency