

1. Photon Energy.

$E \propto f$ gives

$h = \text{plank constant}$

$$E = hf = \frac{hc}{\lambda}$$

$$\triangleright 1\text{eV} = 1.6 \times 10^{-19}\text{J}$$

2. Photo Electric Equation.

photon E = workfunction + K. e

$$hf = \varphi + \frac{1}{2} m v_{\text{max}}^2$$

3. Threshold Frequency.

$$f_0 = \frac{\varphi}{h}$$

4. Energy levels and photon energy.

$$hf = E_1 - E_2$$

5. De Broglie's Wavelength.

$$\lambda = \frac{h}{p} = \frac{h}{mv}$$

6. Electron Diffraction.

$$\lambda = 2d \sin \theta$$

7. Speed of Electron.

$$eV = \frac{1}{2} mv^2$$

Calculations For A Level Physics

P G Ashmore



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