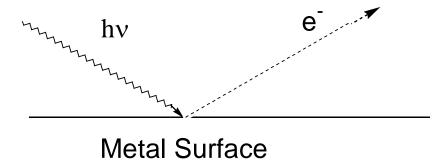
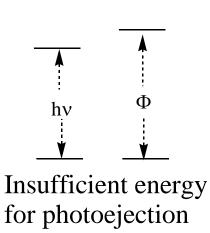
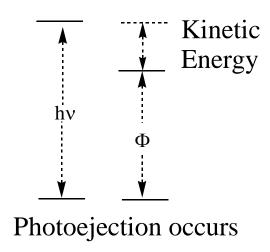
Photoelectric Effect

- Electrons are ejected from a metal surface by absorption of a photon.
- Depends on frequency, not on intensity.
- Threshold frequency corresponds to $hv_0 = \Phi$
- Φ is the work function. It is essentially equal to the ionization potential of the metal.







 $h\nu = \frac{1}{2}mv^2 + \Phi$