

## AP Physics 2 Review Questions

### *Integrating Content, Inquiry and Reasoning*

1. Based on what you know about the photoelectric effect, describe the relationship between the intensity of light and electric current.
2. Photons of which color light have more energy, yellow or green?
3. If one photon of incident light causes the emission of one electron from sodium, how many electrons are emitted if the intensity of the same light is doubled?
4. The work function for Na is 2.36 eV ( $1 \text{ eV} = 1.60218 \times 10^{-19} \text{ J}$ ). What is the lowest frequency of light that will cause photoelectric emission?