Student Exploration: Photoelectric Effect

Vocabulary: electron volt, frequency, intensity, photoelectric effect, photon, voltage, wavelength, work function

Prior Knowledge Questions (Do these BEFORE using the Gizmo.)

Suppose you went bowling, but instead of a bowling ball you rolled a ping pong ball down
the alley. What do you think would happen? No strike would be achieved, since the ping pong ball is
not big enough to knock off any of the pins

2. Suppose you rolled a lot of ping pong balls at the bowling pins. Do you think that would change the results of your experiment? Explain. Same event will take place, none of the pins would be knocked, because the base are small, but knock off a pin the need to generate a lot of momentum and velocity, which can only be achieved in a vacuum

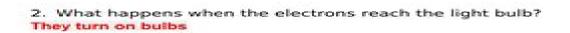
Gizmo Warm-up

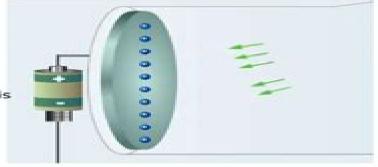
The **photoelectric effect** occurs when tiny packets of light, called **photons**, knock electrons away from a metal surface. Only photons with enough energy are able to dislodge electrons.

In the Photoelectric Effect Gizmo¹¹¹, check that the Wavelength is 500 nm, the Intensity is 50%, the Voltage is 0.0 volts, and Potassium is selected. Click Flash the light to send photons of light (green arrows) toward the surface of a metal plate encased in a vacuum tube.

 The blue dots on the metal plate are electrons. What happens when the photons hit the electrons?

As a result they move across the the gradient and head towards the metal plate.





Explore Learning Photoelectric Effect Answer Key

DJ Losen

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