

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

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 where 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 Gizmo™, 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?



What happens when the electrons reach the light bulb? They turn on bulbs

When electrons reach the light bulb they complete a circuit, a "ing the hand allow briefly."

Explore Learning Student Exploration Answers Photoelectric

Karin Nielsen-Saines

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