

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.)

1. 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* 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.



1. 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.

2. What happens when the electrons reach the light bulb?

They turn on bulbs

Explore Learning Photoelectric Effect Answer Key

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