

## Student Exploration: Photoelectric Effect

**Directions:** Follow the instructions to go through the simulation. Respond to the questions and prompts in the orange boxes.

**Vocabulary:** electron volt, frequency, photoelectric effect, photon, photon flux, 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?

Ping pong ball would most likely miss the bowling pins or not be able to knock them down.

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.

There would be more of a chance for the ping pong balls to hit the bowling pins, but they wouldn't get knocked down.

### 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 **Photon flux** is 5  $\gamma$ /ms, the **Voltage** is 0.0 volts, and **Potassium** is selected. Click **Flash the light** to send photons of light (green arrows) toward 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?

When the photons hit the electrons, a few are ejected from the potassium metal.

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

The lightbulb lights up momentarily when the electrons hit it.

When electrons reach the light bulb they complete a circuit, causing the bulb to glow briefly.

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