

Student Exploration: Photoelectric Effect Questions and answers

NAME: _____

Student Exploration: Photoelectric Effect

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? **I think that it wouldn't knock down any of the pins and the ping pong ball would bounce off the alley.**
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. **No, I don't think that the results would change because the ping pong balls don't have enough weight to stay in the alley.**

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? **When the photons hit the electrons only five of the electrons move off the metal plate.**
2. What happens when the electrons reach the light bulb? **When electrons reach the light bulb they complete a circuit, causing the bulb to glow briefly.**

Gizmo Student Exploration Photoelectric Effect Answers

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