# Student Exploration: Photoelectric Effect Questions and answers

NAME:

## Student Exploration: Photoelectric Effect

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? I think that it wouldn't knock down any of
  the pins and the ping pong ball would bounce off the alley.
- 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.



- 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.
- 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 Photoelectric Effect Key**

**Solomon Meerovich Ryvkin** 

## **Gizmo Photoelectric Effect Key:**

Dr. Dobb's Journal ,2002 Photoelectric Effects in Semiconductors Solomon Meerovich Ryvkin,1969

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