

Student Exploration: Photoelectric Effect Questions and answers

NAME: _____

Student Exploration: Photoelectric Effect

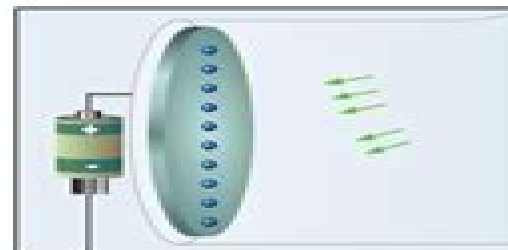
Prior Knowledge Questions (Do these BEFORE using the Gizmo.)

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.**

Photoelectric Effect Gizmo

Donald W. Boys

A red circular graphic with a gradient, appearing as a stylized arrow or a light effect, positioned to the right of the author's name.

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Dr. Dobb's Journal ,2002 How Computers Work Ron White,2008 Illustrations and text provide information on the inner workings of computers printers and the Internet discussing the boot up process hardware microchips data storage input output devices and multimedia **Esquire** ,1966-07 **The Photoelectric Effect** Karl Taylor Compton,Owen Willans Richardson,1913 **The Photoelectric Effect in Potassium Vapour as a Function of the Frequency of the Light** Ernest Orlando Lawrence,1925 **Photoelectric Effects in Semiconductors** Solomon Meerovich Ryvkin,1969 Photoelectric Effect Revisited Donald W. Boys,1978 Photoelectric Effect M. Doss,R. D. Masterton,1983 **THE PHOTOELECTRIC EFFECT.** K. A. Yumatov,FARADAY TRANSLATIONS NEW YORK.,1944 *Experiments on the Photoelectric Effect and on the Diffusion of Electrons in Gases* E. M. Didwall,C. J. Rigby,G. McClellan,1977 **L'effet Thermionique Et la Photoélectricité** Lee Alvin DuBridge,1935 The Photoelectric Effect Owen Willans Richardson,F. J. Rogers,1915 **Theory of the Photoelectric Effect** M. E. Rose,Lawrence C. Biedenharn (Physicist, United States),1954 **Element of Time in the Photoelectric Effect** Ernest Orlando Lawrence,Jesse Wakefield Beams,1928 **Photoelectric Effect** M. Doss,1983 **Remark on the Theory of the Photoelectric Effect** Lajos Jánossy,1975 **The Theory of the Photoelectric Effect and Its Application to Pure Metals** Else Bassoe,1939 **The Influence of Gases on the Photoelectric Effect** William F. Radle,1929 The Element of Time in the Photoelectric Effect Charles Erwin Tyler,1969 *The Photoelectric Effect, by Leigh Page ...* Leigh Page,

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