

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 Key

Donald W. Boys



Photoelectric Effect Gizmo Key:

Dr. Dobb's Journal ,2002 **The Photoelectric Effect in Potassium Vapour as a Function of the Frequency of the Light** Ernest Orlando Lawrence,1925 **The Photoelectric Effect** Karl Taylor Compton,Owen Willans Richardson,1913

Photoelectric Effect M. Doss,R. D. Masterton,1983 **Photoelectric Effects in Semiconductors** Solomon Meerovich Ryvkin,1969 Photoelectric Effect Revisited Donald W. Boys,1978 Photoelectric Effect and Temperature in Potassium Photoelectric Cells Herbert Eugene Ives,1924 The Photoelectric Effect Owen Willans Richardson,F. J. Rogers,1915 *L'effet Thermionique Et la Photoélectricité* Lee Alvin DuBridge,1935 **Theory of the Photoelectric Effect** M. E. Rose, Lawrence C. Biedenharn (Physicist, United States),1954 The Photoelectric Effect, by Leigh Page ... Leigh Page, *Experiments on the Photoelectric Effect and on the Diffusion of Electrons in Gases* E. M. Didwall,C. J. Rigby,G. McClellan,1977 **Element of Time in the Photoelectric Effect** Ernest Orlando Lawrence,Jesse Wakefield Beams,1928 *Photoelectric Effect* M. Doss,1983 **The Element of Time in the Photoelectric Effect** Charles Erwin Tyler,1969 The Photoelectric Effect Leigh Page,1913 *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

~Thece Photoelectric Effect ,1967 **The photoelectric effect** Marcello Colozzo,2023-01-28 In 1900 Max Planck provided the first step by introducing quantization in the processes of absorption and emission of energy by matter Five years later Einstein went one step further demonstrating that quantization is also present in the propagation of an electromagnetic field so it is an intrinsic component of an electromagnetic field In other words he introduced the concept of photon Marcello Colozzo a graduate in Physics has been involved in online teaching of Mathematics and Physics since 2008 through the Extra Byte website where simulations are performed in the Mathematica computing environment In recent years he has published various articles on mathematical physics and collaborates with the Electronic Open Source magazine An avid reader of cyberpunk fiction he has attempted to transition into cyber writer status by publishing various anthologies of short stories

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