Student Exploration: Photoelectric Effect Questions and answers

NAME:

Student Exploration: Photoelectric Effect

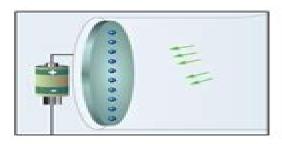
Prior Knowledge Questions (Do these BEFORE using the Gizmo.)

- 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.

Photoelectric Effect Gizmo

Ernest Orlando Lawrence

Photoelectric Effect Gizmo:

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. Theory of the Photoelectric Effect M. E. Rose, Lawrence C. Biedenharn (Physicist, United States), 1954 Rogers, 1915 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,

Decoding **Photoelectric Effect Gizmo**: Revealing the Captivating Potential of Verbal Expression

In an era characterized by interconnectedness and an insatiable thirst for knowledge, the captivating potential of verbal expression has emerged as a formidable force. Its ability to evoke sentiments, stimulate introspection, and incite profound transformations is genuinely awe-inspiring. Within the pages of "**Photoelectric Effect Gizmo**," a mesmerizing literary creation penned by a celebrated wordsmith, readers embark on an enlightening odyssey, unraveling the intricate significance of language and its enduring affect our lives. In this appraisal, we shall explore the book is central themes, evaluate its distinctive writing style, and gauge its pervasive influence on the hearts and minds of its readership.

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Photoelectric Effect Gizmo Introduction

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