

Name:

Date:

Student Exploration: Photoelectric Effect Gizmo

Directions: Follow the instructions to go through the simulation. Respond to the questions and prompts in the orange boxes.

Vocabulary: electron volt, frequency, photoelectric effect, photon, photon flux, voltage, wavelength, work function

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?

It would be very difficult to get the ball to hit the pins, let alone drop them do to its inferior weight.

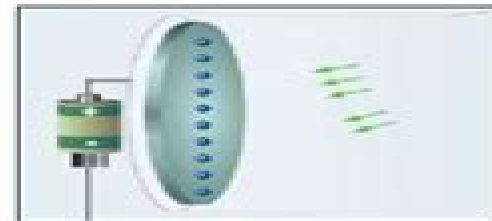
2. Suppose you rolled a lot of ping pong balls at the bowling pins. Do you think that would change the results of your experiment? Explain.

I would imagine that with a significant amount of ping pong balls you would be able to move the pins.

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 **Photon flux** is 5 γ /ms, the **Voltage** is 0.0 volts, and **Potassium** is selected. Click **Flash the light** to send photons offlight (green arrows) toward 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?

The electrons detach from the plate and start traveling.

2. What happens when the electrons reach the light bulb?

Explore Learning Photoelectric Effect Gizmo

SA Adler



Explore Learning Photoelectric Effect Gizmo:

The Enigmatic Realm of **Explore Learning Photoelectric Effect Gizmo**: Unleashing the Language is Inner Magic

In a fast-paced digital era where connections and knowledge intertwine, the enigmatic realm of language reveals its inherent magic. Its capacity to stir emotions, ignite contemplation, and catalyze profound transformations is nothing in short supply of extraordinary. Within the captivating pages of **Explore Learning Photoelectric Effect Gizmo** a literary masterpiece penned by a renowned author, readers attempt a transformative journey, unlocking the secrets and untapped potential embedded within each word. In this evaluation, we shall explore the book's core themes, assess its distinct writing style, and delve into its lasting impact on the hearts and minds of those that partake in its reading experience.

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