

Student Exploration: Photoelectric Effect

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?

Ping pong ball would most likely miss the bowling pins or not be able to knock them down.

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.

There would be more of a chance for the ping pong balls to hit the bowling pins, but they wouldn't get knocked down.

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 of light (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?

When the photons hit the electrons, a few are ejected from the potassium metal.

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

The lightbulb lights up momentarily when the electrons hit it.

When electrons reach the light bulb they complete a circuit, causing the bulb to glow briefly.

Explore Learning Gizmo Answer Key Photoelectric Effect

JS Bruner



Explore Learning Gizmo Answer Key Photoelectric Effect:

Unveiling the Magic of Words: A Overview of "**Explore Learning Gizmo Answer Key Photoelectric Effect**"

In a global defined by information and interconnectivity, the enchanting power of words has acquired unparalleled significance. Their ability to kindle emotions, provoke contemplation, and ignite transformative change is really awe-inspiring. Enter the realm of "**Explore Learning Gizmo Answer Key Photoelectric Effect**," a mesmerizing literary masterpiece penned by a distinguished author, guiding readers on a profound journey to unravel the secrets and potential hidden within every word. In this critique, we shall delve in to the book is central themes, examine its distinctive writing style, and assess its profound effect on the souls of its readers.

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