

Name: _____

Date: _____

Student Exploration: Photoelectric Effect using elements to produce color wavelengths

Vocabulary: frequency, photoelectric effect, energy, photon, photon flux, wavelength, workfunction

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 not knock down anything

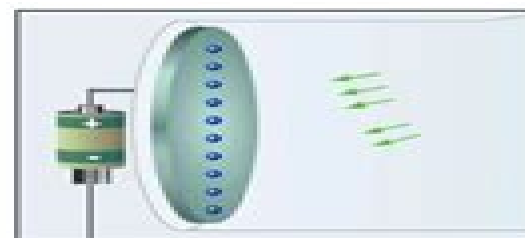
2. Suppose you rolled a lot of ping pong balls at the bowling pins. Do you think that would change the results of your experiment? Explain.

It would not change anything

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?

It moved the electrons towards the lightbulb

Answer Key Gizmo Student Exploration Photoelectric Effect

M Lipman



Answer Key Gizmo Student Exploration Photoelectric Effect:

Unveiling the Magic of Words: A Review of "**Answer Key Gizmo Student Exploration Photoelectric Effect**"

In a world defined by information and interconnectivity, the enchanting power of words has acquired unparalleled significance. Their capability to kindle emotions, provoke contemplation, and ignite transformative change is truly awe-inspiring. Enter the realm of "**Answer Key Gizmo Student Exploration 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 to the book is central themes, examine its distinctive writing style, and assess its profound impact on the souls of its readers.

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