



Name: Miah Aponte-Nieves

Date: 1/18

## 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?

The ping pong ball would bounce off pins because it is too light to knock the pin down.

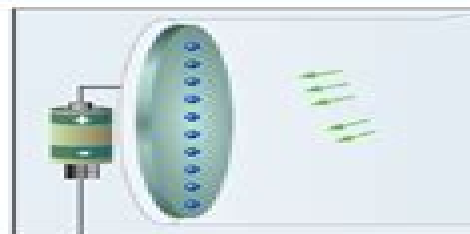
2. Suppose you rolled a lot of ping pong balls at the bowling pins. Do you think that would change the results of your experiment? Explain.

Yes, I think this because of the saying 1 pound of feathers is the same as a pound of bricks, if I can get the weight of the ping pong balls to match the weight of a bowling ball it will be able to knock it down a pin 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 photons hit the electrons they are dislodged from the metal plate and move to the other side.

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

When the electrons hit the light bulb it glows for a quick moment.

# Explore Learning Gizmo Answer Key Photoelectric Effect

**Roman Wölfel**



## **Explore Learning Gizmo Answer Key Photoelectric Effect:**

## Unveiling the Energy of Verbal Beauty: An Psychological Sojourn through **Explore Learning Gizmo Answer Key Photoelectric Effect**

In a world inundated with screens and the cacophony of immediate connection, the profound energy and emotional resonance of verbal beauty frequently fade into obscurity, eclipsed by the constant assault of noise and distractions. Yet, set within the musical pages of **Explore Learning Gizmo Answer Key Photoelectric Effect**, a charming perform of literary brilliance that pulses with organic feelings, lies an memorable journey waiting to be embarked upon. Penned with a virtuoso wordsmith, that interesting opus guides readers on a mental odyssey, gently revealing the latent possible and profound influence embedded within the elaborate internet of language. Within the heart-wrenching expanse of the evocative analysis, we will embark upon an introspective exploration of the book is main themes, dissect its fascinating publishing type, and immerse ourselves in the indelible effect it leaves upon the depths of readers souls.

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## **Explore Learning Gizmo Answer Key Photoelectric Effect Introduction**

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