

Name: _____

Date: _____

Student Exploration: Photoelectric Effect

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

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

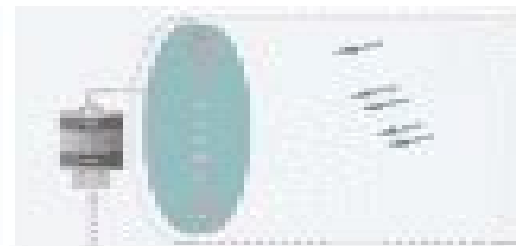
1. Suppose you went bowling, but instead of a bowling ball you rolled a ping pong ball down the alley. What do you think would happen? _____

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. _____

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 enclosed in a vacuum tube.



1. The red dots on the metal plate are electrons. What happens when the photons hit the electrons? _____

2. 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 Answers Quizlet

M Carnoy

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the 'M Carnoy' text.

Photoelectric Effect Gizmo Answers Quizlet:

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