

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

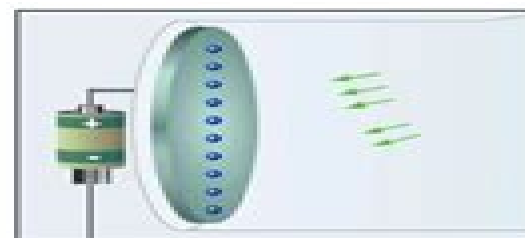
2. Suppose you rolled a lot of ping pong balls at the bowling pins. Do you think that would change the results of your experiment? Explain.

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

Jin-Ying Zhang



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