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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.

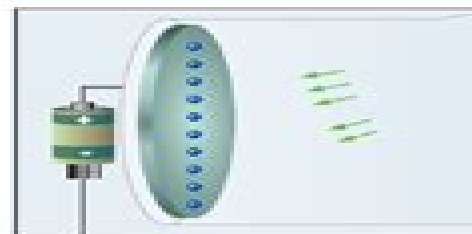
2. Suppose you rolled a lot of ping pong balls at the bowling pins. Do you think that would change the results of your experiment? Explain.

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.

Photoelectric Gizmo Answer Key

Mark Steyvers

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the author's name.

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