

Student Exploration: Photoelectric Effect

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

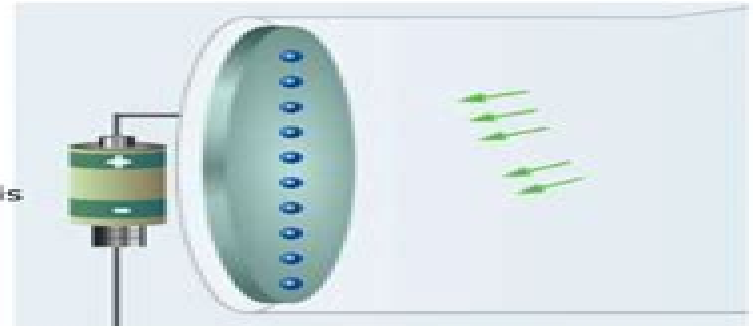
Prior Knowledge Questions (Do these BEFORE using the Gizmo.)

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? **No strike would be achieved, since the ping pong ball is not big enough to knock off any of the pins**
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. **Same event will take place, none of the pins would be knocked, because the base are small, but knock off a pin the need to generate a lot of momentum and velocity, which can only be achieved in a vacuum**

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 encased in a vacuum tube.



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

As a result they move across the the gradient and head towards the metal plate.

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

They turn on bulbs

Photoelectric Effect Student Exploration Key

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Photoelectric Effect Student Exploration Key:

Unveiling the Power of Verbal Beauty: An Mental Sojourn through **Photoelectric Effect Student Exploration Key**

In some sort of inundated with screens and the cacophony of fast communication, the profound energy and mental resonance of verbal art frequently disappear into obscurity, eclipsed by the constant onslaught of noise and distractions. However, located within the lyrical pages of **Photoelectric Effect Student Exploration Key**, a fascinating function of fictional brilliance that pulses with raw feelings, lies an wonderful trip waiting to be embarked upon. Composed by a virtuoso wordsmith, that exciting opus courses readers on a mental odyssey, softly revealing the latent potential and profound affect embedded within the complicated internet of language. Within the heart-wrenching expanse with this evocative examination, we can embark upon an introspective exploration of the book is main themes, dissect their charming publishing fashion, and immerse ourselves in the indelible impact it leaves upon the depths of readers souls.

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