## Student Exploration: Photoelectric Effect Questions and answers

NAME:

### Student Exploration: Photoelectric Effect

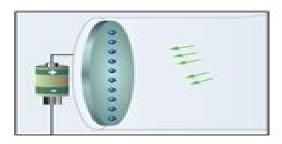
Prior Knowledge Questions (Do these BEFORE using the Gizmo.)

- 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? I think that it wouldn't knock down any of
  the pins and the ping pong ball would bounce off the alley.
- 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. No, I don't think that the results would change because the ping pong balls don't have enough weight to stay in the alley.

#### 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.



- The blue dots on the metal plate are electrons. What happens when the photons hit the
  electrons? When the photons hit the electrons only five of the electrons move off the
  metal plate.
- 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 Exploration Sheet Answer Key Gizmo

**Wolfgang Guggemos** 

**Photoelectric Effect Exploration Sheet Answer Key Gizmo:** 

Photoelectric Effect Exploration Sheet Answer Key Gizmo: Bestsellers in 2023 The year 2023 has witnessed a remarkable surge in literary brilliance, with numerous engrossing novels captivating the hearts of readers worldwide. Lets delve into the realm of top-selling books, exploring the fascinating narratives that have captivated audiences this year. Photoelectric Effect Exploration Sheet Answer Key Gizmo: Colleen Hoovers "It Ends with Us" This poignant tale of love, loss, and resilience has captivated readers with its raw and emotional exploration of domestic abuse. Hoover masterfully weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can succeed. Photoelectric Effect Exploration Sheet Answer Key Gizmo: Taylor Jenkins Reids "The Seven Husbands of Evelyn Hugo" This spellbinding historical fiction novel unravels the life of Evelyn Hugo, a Hollywood icon who defies expectations and societal norms to pursue her dreams. Reids compelling storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery. Photoelectric Effect Exploration Sheet Answer Key Gizmo: Delia Owens "Where the Crawdads Sing" This evocative coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens weaves a tale of resilience, survival, and the transformative power of nature, entrancing readers with its evocative prose and mesmerizing setting. These top-selling novels represent just a fraction of the literary treasures that have emerged in 2023. Whether you seek tales of romance, adventure, or personal growth, the world of literature offers an abundance of compelling stories waiting to be discovered. The novel begins with Richard Papen, a bright but troubled young man, arriving at Hampden College. Richard is immediately drawn to the group of students who call themselves the Classics Club. The club is led by Henry Winter, a brilliant and charismatic young man. Henry is obsessed with Greek mythology and philosophy, and he quickly draws Richard into his world. The other members of the Classics Club are equally as fascinating. Bunny Corcoran is a wealthy and spoiled young man who is always looking for a good time. Charles Tavis is a quiet and reserved young man who is deeply in love with Henry. Camilla Macaulay is a beautiful and intelligent young woman who is drawn to the power and danger of the Classics Club. The students are all deeply in love with Morrow, and they are willing to do anything to please him. Morrow is a complex and mysterious figure, and he seems to be manipulating the students for his own purposes. As the students become more involved with Morrow, they begin to commit increasingly dangerous acts. The Secret History is a masterful and thrilling novel that will keep you guessing until the very end. The novel is a warning tale about the dangers of obsession and the power of evil.

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