

Student Exploration: Photoelectric Effect

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

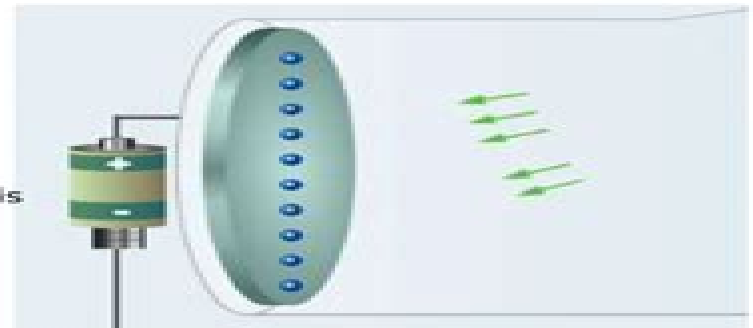
Prior Knowledge Questions (Do these BEFORE using the Gizmo.)

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

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New York (N.Y.). Board of Education



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Solar Cells Sandeep Arya, Prerna Mahajan, 2023-11-16 This book highlights developments in the field of solar cells The chapters in this book address a wide range of topics including the spectrum of light received by solar cell devices the basic functioning of a solar cell and the evolution of solar cell technology during the last 50 years It places particular emphasis on silicon solar cells CIGS based solar cells organic solar cells perovskite solar cells and hybrid solar cells The book describes in detail the fabrication processes employed for different categories of solar cells It also provides the characterization techniques utilized in this sector to evaluate the performance of solar cells and the scope of this domain in the future Overall it presents the essential theoretical and practical concepts of solar cells in an easy to understand manner **High Points in the Work of the High Schools of New York City** New York (N.Y.). Board of Education, 1965 **Einstein's Annalen Papers** Jürgen Renn, 2005-05-06 Ein spannender Einblick in ein Stück Wissenschaftsgeschichte B r senblatt 3 2005 1905 in seinem Annus Mirabilis machte Albert Einstein drei Entdeckungen ber die Grundlagen der Natur die die Basis f r seinen Ruhm als Physiker bildeten Diese drei revolution ren Artikel ber die Lichtquantenhypothese die Brownsche Molekularbewegung sowie die Spezielle Relativit t wurden in der Zeitschrift Annalen der Physik ver ffentlicht Alle drei gelten heute als S ulen der modernen Wissenschaft und ihrer Anwendungen in der Technologie und sind aus der modernen Welt nicht mehr wegzudenken Der vorliegende Band pr sentiert s mtliche von Albert Einstein in der Zeitschrift Annalen der Physik ver ffentlichten Beitr ge darunter einige der wichtigsten Artikel die er jemals schrieb Enthalten sind ebenso die drei revolution ren Artikel des Jahres 1905 als Faksimileabdruck Dar ber hinaus enth lt der Band Beitr ge welche die Folgen der bahnbrechenden Ideen dieser Artikel von $E=mc^2$ bis zur Quantentheorie der spezifischen W rme aufzeigen Die Wissenschaftshistoriker J rgen Renn MPI f r Wissenschaftsgeschichte Berlin David C Cassidy Hofstra Universit t Hempstead USA Michel Janssen Universit t von Minnesota USA und Robert Rynasiewicz John Hopkins Universit t USA haben die vorliegende Sammlung durch aktuelle Artikel erg nzt und kommentiert **Bowker's Complete Video Directory**, 2000 **The software catalog microcomputers** Menu (Firm) (Fort Collins, Colo.), 1989 Current Index to Journals in Education, 1988 *Current Research*, 1999 **American Journal of Physics**, 1940 Archival journal targeted toward advanced level physics and physics education with its focus on the teaching and cultural aspects of physics **Wireless World**, 1982 The Australian Physicist, 1970 **New Mexico Geology**, 2008 *Book Review Digest*, 1937 Excerpts from and citations to reviews of more than 8 000 books each year drawn from coverage of 109 publications Book Review Digest provides citations to and excerpts of reviews of current juvenile and adult fiction and nonfiction in the English language Reviews of the following types of books are excluded government publications textbooks and technical books in the sciences and law Reviews of books on science for the general reader however are included The reviews originate in a group of selected periodicals in the humanities social sciences and general science published in the United States Canada and

Great Britain Publisher *Short Films for Physics Teaching* Commission on College Physics,1969 **The Software Encyclopedia 2001** ,2001 The Oxford Companion to the History of Modern Science John L. Heilbron,2003-02-14

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