

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

Student Exploration Photoelectric Effect Teacher Guide

Victor M. Corman



Student Exploration Photoelectric Effect Teacher Guide:

Resources in Education ,1978-12 Handbook of Research on Online Discussion-Based Teaching Methods Wilton, Lesley,Brett, Clare,2020-05-01 In this digital age faculty teachers and teacher educators are increasingly expected to adopt and adapt pedagogical perspectives to support student learning in instructional environments featuring online or blended learning One highly adopted element of online and blended learning involves the use of online learning discussions Discussion based learning offers a rich pedagogical context for creating learning opportunities as well as a great deal of flexibility for a wide variety of learning and learner contexts As post secondary and increasingly K 12 institutions cope with the rapid growth of online learning and an increase in the cultural diversity of learners it is critical to understand at a detailed level the relationship between online interaction and learning and how educationally effective interactions might be nurtured in an inclusive way by instructors The Handbook of Research on Online Discussion Based Teaching Methods is a cutting edge research publication that seeks to identify promising designs pedagogical and assessment strategies conceptual models and theoretical frameworks that support discussion based learning in online and blended learning environments This book provides a better understanding of the effects and both commonalities and differences of new tools that support interaction such as video audio and real time interaction in discussion based learning Featuring a wide range of topics such as gamification intercultural learning and digital agency this book is ideal for teachers educational software developers instructional designers IT consultants academicians curriculum designers researchers and students *Information and Technology Literacy: Concepts, Methodologies, Tools, and Applications* Management Association, Information Resources,2017-08-30 People currently live in a digital age in which technology is now a ubiquitous part of society It has become imperative to develop and maintain a comprehensive understanding of emerging innovations and technologies Information and Technology Literacy Concepts Methodologies Tools and Applications is an authoritative reference source for the latest scholarly research on techniques trends and opportunities within the areas of digital literacy Highlighting a wide range of topics and concepts such as social media professional development and educational applications this multi volume book is ideally designed for academics technology developers researchers students practitioners and professionals interested in the importance of understanding technological innovations **Teaching Science Online** Dietmar Kennepohl,2023-07-03 With the increasing focus on science education growing attention is being paid to how science is taught Educators in science and science related disciplines are recognizing that distance delivery opens up new opportunities for delivering information providing interactivity collaborative opportunities and feedback as well as for increasing access for students This book presents the guidance of expert science educators from the US and from around the globe They describe key concepts delivery modes and emerging technologies and offer models of practice The book places particular emphasis on experimentation lab and field work as they are fundamentally part of the education in most scientific disciplines Chapters

include Discipline methodology and teaching strategies in the specific areas of physics biology chemistry and earth sciences
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Table of Contents Student Exploration Photoelectric Effect Teacher Guide

1. Understanding the eBook Student Exploration Photoelectric Effect Teacher Guide
 - The Rise of Digital Reading Student Exploration Photoelectric Effect Teacher Guide
 - Advantages of eBooks Over Traditional Books
2. Identifying Student Exploration Photoelectric Effect Teacher Guide
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Student Exploration Photoelectric Effect Teacher Guide
 - User-Friendly Interface
4. Exploring eBook Recommendations from Student Exploration Photoelectric Effect Teacher Guide

- Personalized Recommendations
- Student Exploration Photoelectric Effect Teacher Guide User Reviews and Ratings
- Student Exploration Photoelectric Effect Teacher Guide and Bestseller Lists
- 5. Accessing Student Exploration Photoelectric Effect Teacher Guide Free and Paid eBooks
 - Student Exploration Photoelectric Effect Teacher Guide Public Domain eBooks
 - Student Exploration Photoelectric Effect Teacher Guide eBook Subscription Services
 - Student Exploration Photoelectric Effect Teacher Guide Budget-Friendly Options
- 6. Navigating Student Exploration Photoelectric Effect Teacher Guide eBook Formats
 - ePub, PDF, MOBI, and More
 - Student Exploration Photoelectric Effect Teacher Guide Compatibility with Devices
 - Student Exploration Photoelectric Effect Teacher Guide Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Student Exploration Photoelectric Effect Teacher Guide
 - Highlighting and Note-Taking Student Exploration Photoelectric Effect Teacher Guide
 - Interactive Elements Student Exploration Photoelectric Effect Teacher Guide
- 8. Staying Engaged with Student Exploration Photoelectric Effect Teacher Guide
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Student Exploration Photoelectric Effect Teacher Guide
- 9. Balancing eBooks and Physical Books Student Exploration Photoelectric Effect Teacher Guide
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Student Exploration Photoelectric Effect Teacher Guide
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Student Exploration Photoelectric Effect Teacher Guide
 - Setting Reading Goals Student Exploration Photoelectric Effect Teacher Guide
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Student Exploration Photoelectric Effect Teacher Guide

- Fact-Checking eBook Content of Student Exploration Photoelectric Effect Teacher Guide
- Distinguishing Credible Sources

13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development
- Exploring Educational eBooks

14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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