

Reflection

Introduction

Students will explore the properties of mirrors.

Materials

Mini-Laser or narrow beam flashlight

Flat mirrors

Small cardboard boxes (one to support the mirror and another to serve as a "target")

Butcher paper, about 2 by 3 feet per sheet

Ruler or straight edge

Protractor

Pencil

Notebook – to record the experiment, data, analysis, and conclusions

Extension Activity: aluminum foil, manila folder, tape, wooden ruler, laser or flashlight, and two blackboard erasers

Preparation

Start by proposing a guiding question that will lead to a student investigation: "What happens when a light beam strikes a mirror?" Students may respond "it reflects" – but where does it go? Continue with a discussion that further whittles down and refines the response until the class formulates a hypothesis based on their everyday experience and prior knowledge about what happens to the reflected beam.

Experiment Setup – Test the Hypothesis

If you would like to keep the activity open ended, ask the students to suggest materials necessary to explore their hypothesis with an experiment. There are a few things to consider:

Variables – what am I measuring? (incident and reflected angles)

Experiment setup – how am I going to assemble the materials and measure the variables? (trace the light path and measure angles with a protractor)

Materials – what will I need to set up the experiment, measure the variables, record and organize the data? (light source, mirror, protractor, pencil, butcher paper, graph paper, etc.)

Notice how the experiment setup and materials are inter-related. This is similar to how science (variables and experiment setup) and technology (materials and tools) are related, with one affecting the other.

An example: Variables: incident and reflected beam angles

Experiment setup:

1. On a tabletop, lay out the butcher paper. Students will later trace the beam paths onto this paper with a pencil.

Reflection Lab Report

B Lingard



Reflection Lab Report:

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Table of Contents Reflection Lab Report

1. Understanding the eBook Reflection Lab Report
 - The Rise of Digital Reading Reflection Lab Report
 - Advantages of eBooks Over Traditional Books
2. Identifying Reflection Lab Report
 - 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 Reflection Lab Report
 - User-Friendly Interface
4. Exploring eBook Recommendations from Reflection Lab Report
 - Personalized Recommendations
 - Reflection Lab Report User Reviews and Ratings
 - Reflection Lab Report and Bestseller Lists
5. Accessing Reflection Lab Report Free and Paid eBooks
 - Reflection Lab Report Public Domain eBooks
 - Reflection Lab Report eBook Subscription Services
 - Reflection Lab Report Budget-Friendly Options

6. Navigating Reflection Lab Report eBook Formats
 - ePub, PDF, MOBI, and More
 - Reflection Lab Report Compatibility with Devices
 - Reflection Lab Report Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Reflection Lab Report
 - Highlighting and Note-Taking Reflection Lab Report
 - Interactive Elements Reflection Lab Report
8. Staying Engaged with Reflection Lab Report
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Reflection Lab Report
9. Balancing eBooks and Physical Books Reflection Lab Report
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Reflection Lab Report
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Reflection Lab Report
 - Setting Reading Goals Reflection Lab Report
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Reflection Lab Report
 - Fact-Checking eBook Content of Reflection Lab Report
 - 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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Reflection: After reading the chapter, I admire what Panchito has been trying. Works in the field cannot slow ...