

# 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

**Michael Rajnik**



## Reflection Lab Report:

U.S. Government Research & Development Reports ,1970      **Teaching Undergraduate Science** Linda C. Hodges,2025-09-25 Teaching Undergraduate Science A Guide to Overcoming Obstacles to Student Learning offers college and university instructors evidence based strategies to help students learn those specific skills and habits of mind necessary for succeeding in STEM fields Updated and expanded from the first edition this text elaborates on critical factors in cultivating student success including how to engender a sense of belonging and agency in STEM engage students in their learning and foster deliberate practice Hodges provides frank guidance on the relative effort and outcomes for each strategy allowing instructors to choose techniques best suited to their aims and contexts While focusing primarily on face to face classes this resource also addresses how to work between online resources and physical spaces Hodges years of experience working as and with STEM faculty provides a personal connection to the research shared producing an accessible practical and enjoyable read      Student Reflection and Software Recording Tools E. Shawn Haarer,2000      Subject Index to Unclassified ASTIA Documents Defense Documentation Center (U.S.),1960      *High-Fidelity Patient Simulation in Nursing Education* Wendy Nehring,Felissa Lashley,2010-10-25 High Fidelity Patient Simulation in Nursing Education is a comprehensive guide to developing and implementing a high fidelity patient simulation in a clinical setting It is a necessary primer for administrators and nursing programs starting out with this technology It includes examples for setting up a simulator program for nurses developing and implementing this technology into particular clinical and laboratory courses and setting up refresher courses in hospital settings The text features appendices and case scenarios      **Fifth Annual Workshop on Space Operations Applications and Research (SOAR '91)** ,1992      *Reflection Properties of the Sporadic-E Layer of the Ionosphere* Howard Myron Swarm,1960      **Transactions of the Illuminating Engineering Society** ,1923      *U.S. Government Research Reports* ,1962      *Building Genre Knowledge* Christine Tardy,2009-07-15 Adopting an interdisciplinary perspective BUILDING GENRE KNOWLEDGE provides a unique look into the processes of building genre knowledge while offering a dynamic theory of those processes that is inclusive of both monolingual and multilingual writers a necessary move in today s linguistically diverse classrooms It will therefore be of great interest to researchers and practitioners in both first and second language writing studies      *U.S. Government Research & Development Reports* ,1969      Electronics ,1955 June issues 1941 44 and Nov issue 1945 include a buyers guide section      Bibliography of Scientific and Industrial Reports ,1965-07      **Government Reports Announcements & Index** ,1995      **Government Reports Announcements** ,1971      **Report** ,1965      Bibliography of Scientific and Industrial Reports ,1965-11      *The Journal of the Acoustical Society of America* Acoustical Society of America,1929      **Chemists' Guide to Effective Teaching** Norbert J. Pienta,Melanie M. Cooper,Thomas J. Greenbowe,2005 For courses in Methods of Teaching Chemistry Useful for new professors chemical educators or students learning to teach chemistry Intended for anyone who

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