

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

CO Houle



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