

Lab Write Up: Law of reflection experiment

Purpose: Test the law of reflection to confirm it is true.

Question: How can we test the law of reflection to confirm its true, using a ray box, plane mirror, protractor, pencil and paper?

Hypothesis: yes/no I believe that we can/cannot confirm the law of reflection with these tools.

Procedure:

- plug in ray box
- Slide in single slit square so there's is one slit off light
- Set up mirror (put the clips on).
- Set mirror up vertically on table
- Place ray box on table, point at the mirror.
- Place paper underneath mirror
- Trace incident ray and reflected ray on the paper
- Measure the angle of incidence and angle of reflection with the protractor
- Record
- Repeat 2 times to confirm the evidence of the law of reflection.

Analyze Data:

Reflection: 90

Incidence: 45

Reflection: 80

Incidence: 55

Reflection: 70

Incidence: 65

Conclusion: larger angle of incidence equals smaller angle of reflection.