

Science Assignment for Class 10

Assignment Title: Understanding Reflection of Light

Subject: Science

Grade: 10

Chapter: Light - Reflection and Refraction

Assignment Question:

Objective: To explore the laws of reflection through a practical activity.

Task:

1. Take a plane mirror, a sheet of white paper, and a laser light or torchlight.
2. Place the mirror vertically on the white sheet and draw its outline.
3. Shine the laser light at an angle towards the mirror and trace the incident and reflected rays.
4. Measure the angle of incidence and the angle of reflection using a protractor.
5. Repeat the activity for different angles.

Instructions:

- Record your observations in a table showing the angle of incidence and the corresponding angle of reflection.
- Write your conclusion: What do you observe about the angles?
- Answer: Does this support the laws of reflection?
- Submit a report (1-2 pages) with the diagram, data table, and conclusion.

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Learning Outcome:

Students will understand and verify the laws of reflection of light through a hands-on activity.