Lesson 3 - Reflection

Science - Physics - Key Stage 3

Light and Space

Miss Wickham



Recap questions

- 1. What do waves transfer?
- 2. True or false: light travels in a straight line.
- 3. What sort of wave is light?
- 4. How fast does light travel?
- 5. What happens to light waves when they meet a dark surface?



Hypothesis: The angle of incidence affects the angle of reflection.

Identify the following:

Independent variable:

Dependent variable:

Control variables:



Secondary data

Which result is anomalous?

How should this be treated when calculating means?

Calculate the average angle of reflection for each angle of incidence.

Angle of Incidence (°)
10
20
30
40
50

Angle of Re	flection (°)
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Test 1	Test 2	Test 3	Mean
10	9	11	
19	20	21	
31	40	29	
40	39	41	
49	50	50	

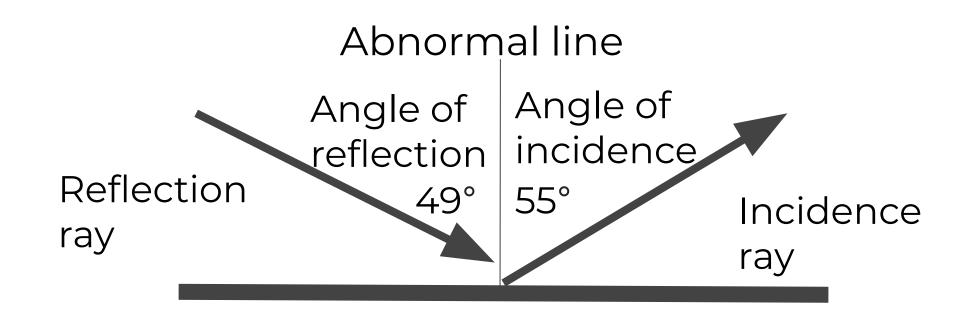


Writing a conclusion

- 1. What do you notice about each value for the angle of incidence and the angle of reflection?
- 2. Can you give 2 examples of data to show this?
- 3. Are these results repeatable?



Spot the errors on the reflection ray diagram and outline how to draw a ray diagram correctly.



Matt black surface

