

Lesson 3 - Reflection

Science - Physics - Key Stage 3

Light and Space

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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 (°)	Angle of Reflection (°)			
	Test 1	Test 2	Test 3	Mean
10	10	9	11	
20	19	20	21	
30	31	40	29	
40	40	39	41	
50	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.

