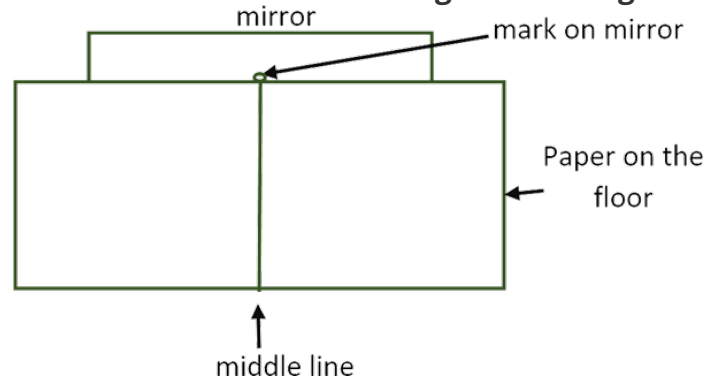


Light in my eyes

This task is about observing reflected light.



Instructions

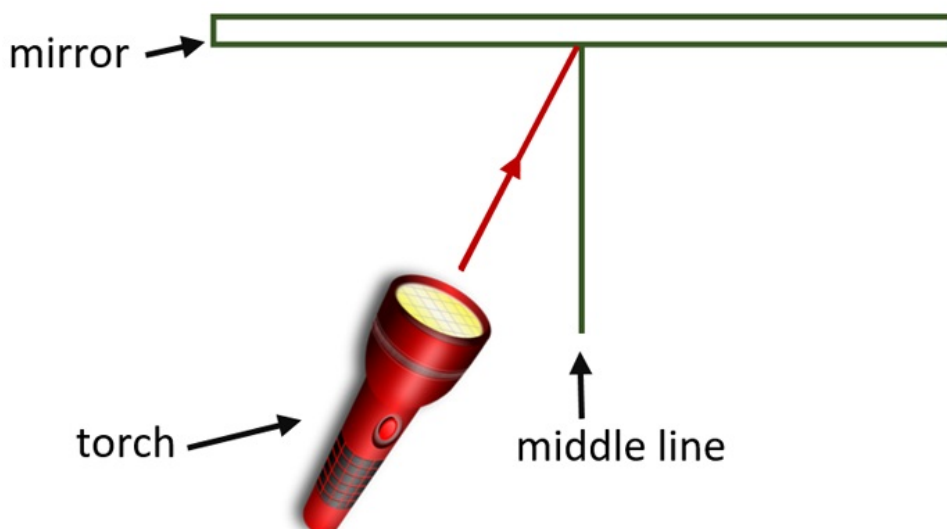
- You will need a partner to help you with the task.
- Place a mirror so it sits flat against a wall.
- Make a mark halfway along the mirror.
- Put a piece of paper on the floor in front of the mirror.

For each diagram:

1. Put the torch at a similar angle to how it is drawn and shine it at the mark on your mirror.
2. Ask your partner to hold up a ruler on the other side of the middle line. Move it sideways until the light shines on it.
3. On each diagram, mark with a cross where the ruler is.
4. On each diagram draw a line from the mirror to the cross to show where the reflected light goes.

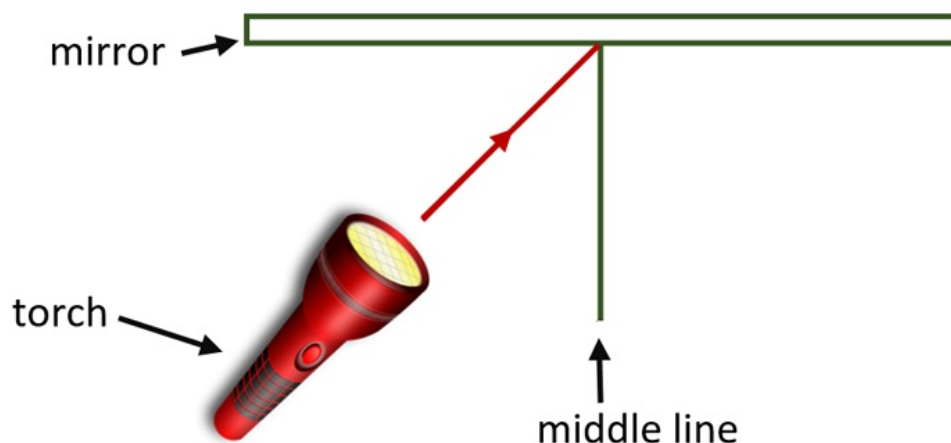
a) i) Put the torch at a similar angle to how it is drawn and shine it at the mark on your mirror. Ask your partner to hold up a ruler on the other side of the middle line. Move it sideways until the light shines on it.

1. Mark with a cross where the ruler is now.
2. Draw a line from the mirror to the cross to show where the reflected light goes.



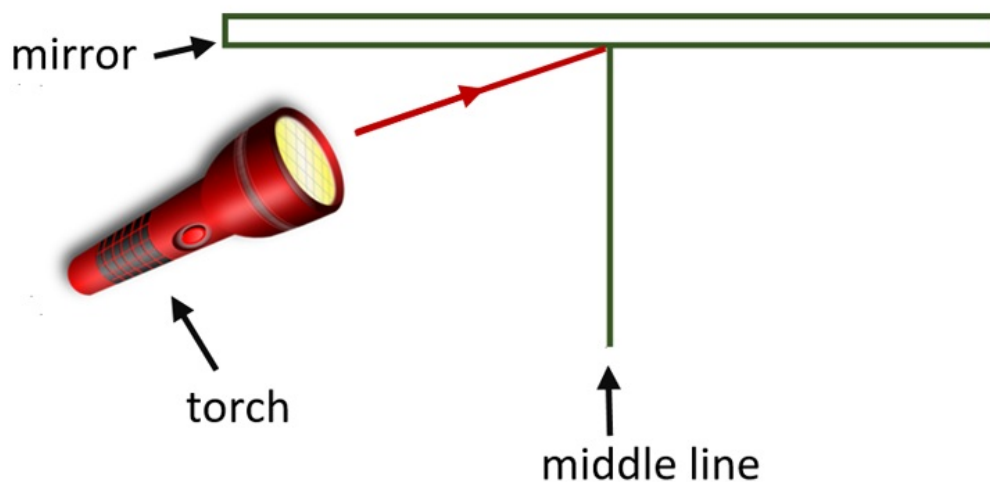
a) ii) Put the torch at a similar angle to how it is drawn and shine it at the mark on your mirror. Ask your partner to hold up a ruler on the other side of the middle line. Move it sideways until the light shines on it.

1. Mark with a cross where the ruler is now.
2. Draw a line from the mirror to the cross to show where the reflected light goes.

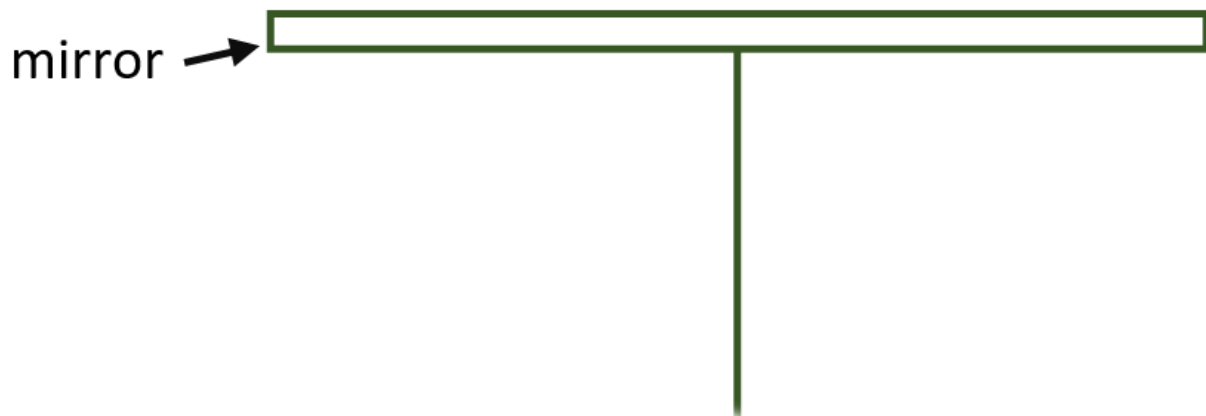


a) iii) Put the torch at a similar angle to how it is drawn and shine it at the mark on your mirror. Ask your partner to hold up a ruler on the other side of the middle line. Move it sideways until the light shines on it.

1. Mark with a cross where the ruler is now.
2. Draw a line from the mirror to the cross to show where the reflected light goes.



b) Shine the torch at the mirror and find out where the torch needs to be to get the light to shine back on your face. Draw where the torch is on the diagram below.



c) Write a sentence describing any pattern that you have noticed about the diagrams you have drawn of the torch and its light.

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