



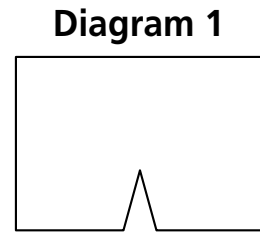
Name: Form:

Based on pages 10 and 11 of *Light and shadows*

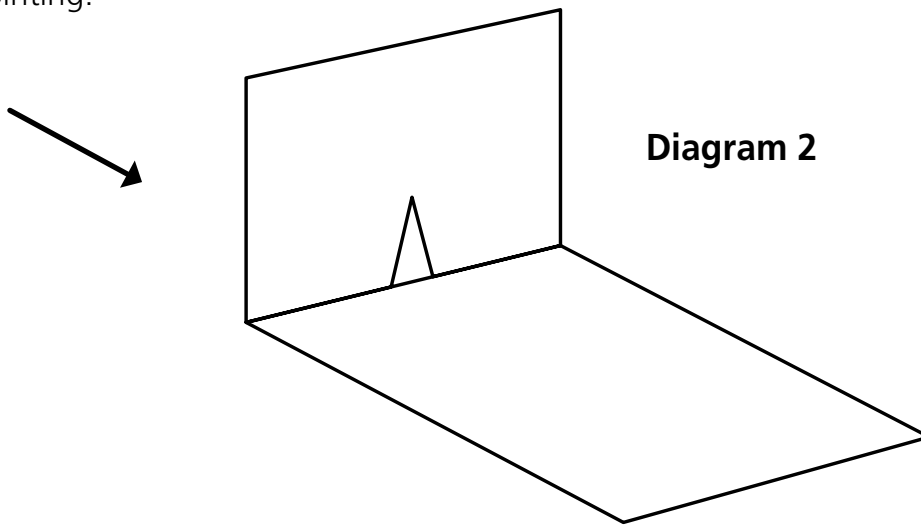
Investigating light rays

Try this...

1. Take a piece of card and cut a slit in it as Diagram 1 shows.

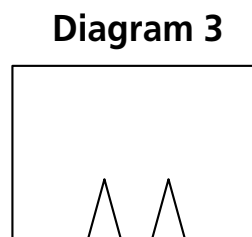


2. Set up the card and white paper as Diagram 2 shows, and shine a torch where the arrow is pointing.



3. On Diagram 2, draw how light moves over the paper.

4. Cut another slit in the card, as Diagram 3 shows.



5. Predict what might happen if you shine the light through the slits onto the paper.
6. Shine the light through the slits. On a separate piece of paper, draw a diagram to show how the light travelled after it had passed through the two slits.
7. Place a solid object in front of one of the slits. Predict what might happen if you shine the light through the slits onto the paper when a solid object is in front of one of the slits.
8. Shine a light through the two slits, onto the object. On the separate piece of paper, draw a diagram to show how the light travelled after it had passed through the two slits.