

## Light and Shadows Lesson 5

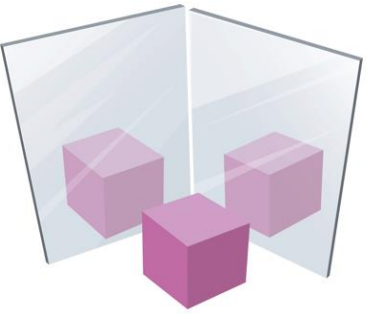
L.O. To investigate mirrors further

There are lots of activities that you can do with mirrors.

Here are a range of things you could do. Choose 1 to have a go at.

### Choice 1

**How many images?**



What happens when you change the angle?  
Is there a pattern in your results?

Angle	Number of images

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Stick two mirrors together so that you can move the angle of the mirrors how does it effect the number of objects you can see?



Try 45, 90, 135, 180 degrees

Keep one mirror still as well as the object.

### Choice 2

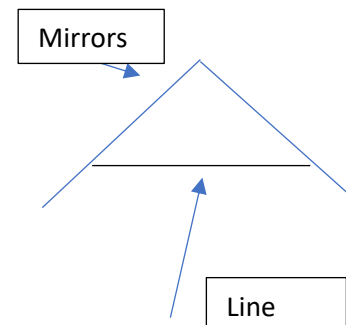
**How can you make different shapes using 2 mirrors?**

1. Draw a horizontal line in front of the two mirrors.
2. Now find out what happens when you change the angle between the two mirrors, making the angle greater and smaller.
3. How can you make a square, triangle and pentagon?
4. What other shapes can you make?
5. Do you notice a link (relationship) between the size of the angle and the number of sides on the shapes?




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Follow the instructions to your left.  
Can you make a shape using the instructions?



### Choice 3

## Mirrors and symmetry



Did you know...  
A 2D shape is **symmetrical** if a line can be drawn through and both sides of the line look exactly the same.

The line is called a **line of symmetry**.

What do you think you will see if you put a mirror along the dotted line?

Draw half a butterfly. Put the mirror on the dotted line, what do you see?

What else can you create that is symmetrical?

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Can you create a symmetrical image using a mirror?

### Last activity

Answer the question below:

## Why do you think the word ambulance is reversed?



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