

Max's Symmetry Garden Challenge

Learning objective: To identify, describe and draw lines of symmetry in 2D shapes and patterns.

Max the monkey is designing a symmetrical garden for his friends. Follow the steps below to help him finish his pattern. Use a ruler to ensure your lines are precise.

Draw: Create a square grid in the centre of the page. Inside the grid, draw a simple garden scene. Include a path running vertically down the middle. On the left side of the path, draw a small flower and a square stone. On the right side, draw the exact reflection of the flower and the stone so the whole scene is symmetrical. Use a sharp pencil and a ruler for the straight edges.



Label words: Line of symmetry · Reflect · Horizontal · Vertical · Diagonal · Symmetrical

Steps:

1. Draw a vertical line of symmetry down the centre of the square plot provided in your drawing area.
2. If Max draws a triangle that is 3cm away from the line of symmetry on the left, how far away must its reflection be on the right to remain symmetrical?
3. Explain why a circle has an infinite number of lines of symmetry.
4. Draw a shape with exactly two lines of symmetry in the space below and mark both lines with a dashed line.

5. Label your drawing using at least three words from the word bank.