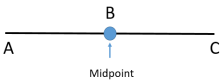


Maths - Year 4

Geometry 2: Understanding reflective symmetry

Key Vocabulary

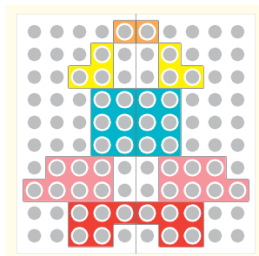
Symmetry	Objects or images with halves that mirror each other are symmetrical, e.g. butterflies, tennis courts.
Line of symmetry	A line that divides a symmetrical object in half.
Perpendicular	A triangle with no equal sides.
Parallel	Lines that remain the same distance apart and never touch.
Angle	An amount of turn or rotation.
Turn	To rotate a shape or object around a fixed point.
Midpoint	The middle point of a line segment. 
Congruent	Identical. Congruent shapes have the same area, size, angles and lengths as each other.

Mathematical Skills

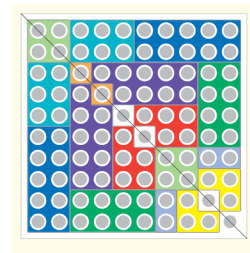
- Describe the symmetry of different types of triangle and quadrilateral, and regular polygons.
- Understand that regular polygons have the same number of lines of symmetry as they do sides.
- Understand that any straight line through the centre of a circle is a line of symmetry.
- Describe how to position or draw elements (e.g. counters or lines) in order to make a pattern or shape symmetrical.
- Organise work, choose methods and strategies, and record findings effectively.
- Make or draw a symmetrical pattern or shape with a vertical, horizontal or diagonal line of symmetry.

Mathematical Methods

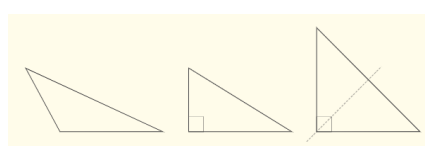
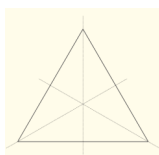
- Symmetry, reflection and balance.



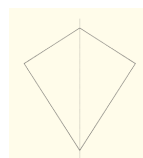
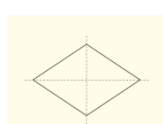
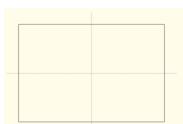
- Creating a symmetrical pattern with a non-vertical line of symmetry.



- Investigating lines of symmetry in triangles.



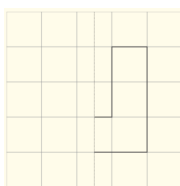
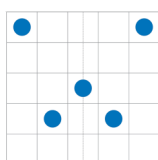
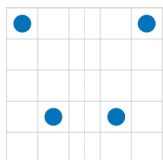
- Investigating lines of symmetry in quadrilaterals.



- Investigating lines of symmetry in regular polygons and circles.

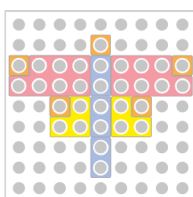


- Completing symmetrical patterns and shapes.



Can you..?

- Can you identify the line of symmetry?



- Identify the lines of symmetry.



- Complete the symmetrical pattern.

