

Max's Magnificent World of Polygons

Max the Monkey is on the hunt for geometric perfection—can you spot the patterns in the shapes all around you?

- A regular polygon is a shape where all sides are equal in length and all interior angles are equal; how does this differ from an irregular polygon?
- Quadrilaterals are four-sided shapes; compare and contrast the properties of a square and a rhombus regarding their angles and side lengths.
- A line of symmetry acts like a mirror; if you draw a line down the centre of a shape, both sides must be identical reflections of one another.
- Angles less than 90 degrees are called acute, while angles greater than 90 degrees but less than 180 degrees are called obtuse.
- Parallel lines are lines that stay the same distance apart forever and will never meet, no matter how far they are extended.

Did you know? Did you know? A shape is only a 'polygon' if it is a flat, closed 2D shape with straight sides. If it has a curve, like a circle, or an opening, it doesn't count! Max loves to calculate the total number of sides on a shape to determine its name.

Key vocabulary: Polygon · Quadrilateral · Parallel · Perpendicular · Line of symmetry · Acute angle · Obtuse angle · Vertex