

Max's Magnificent Maths: All About Shapes

Master the mystery of shapes with Max the Monkey—where every corner is a clue!

- A polygon is a 2D shape with straight sides. To be a polygon, the shape must be closed, meaning there are no gaps in the perimeter.
- Parallel lines are lines that stay the same distance apart and will never meet, no matter how far they are extended, just like the rails on a train track.
- Perpendicular lines meet at a right angle (90 degrees). You can often spot these by looking for the corner of a square or the letter 'L'.
- A 3D shape is defined by its faces (flat surfaces), edges (where two faces meet), and vertices (the points or corners where edges meet).
- A square-based pyramid has 5 faces, 8 edges, and 5 vertices. The base is a square, while the four side faces are triangles.

Did you know? Did you know? A 'regular' polygon has all sides and all interior angles equal. If you see a shape that looks a bit wonky or stretched, it is likely an 'irregular' polygon, even if it has the same number of sides!

Key vocabulary: Polygon · Parallel · Perpendicular · Vertex · Edge · Face · Regular · Irregular