

Max the Monkey's Geometry Challenge

Learning objective: To identify, describe, and classify 2D and 3D shapes, including properties of angles and symmetry, in line with Year 6 curriculum requirements.

Read the front of the flashcard to test your knowledge of geometry. Flip to the back to check your answer with Max the Monkey's notes.

What is a polygon?

A 2D shape with straight sides that is fully enclosed.

What is the difference between an acute angle and an obtuse angle?

An acute angle is less than 90 degrees, while an obtuse angle is greater than 90 degrees but less than 180 degrees.

How many faces, edges, and vertices does a cube have?

6 faces, 12 edges, and 8 vertices.

Define a reflex angle.

An angle that is greater than 180 degrees but less than 360 degrees.

What is a net in 3D geometry?

A 2D pattern that can be folded to form a 3D shape.

How many lines of symmetry does a regular pentagon have?

5 lines of symmetry.

What is a translation?

Moving a shape from one position to another without rotating or flipping it.

What are the properties of a parallelogram?

Opposite sides are parallel and equal in length, and opposite angles are equal.

What defines an isosceles triangle?

A triangle with at least two sides of equal length and two equal base angles.

If a shape is reflected across a mirror line, what happens to its coordinates?

The distance of each point from the mirror line remains the same, but the shape appears reversed.

What is the sum of angles in a triangle?

180 degrees.

What is the sum of angles in a quadrilateral?

360 degrees.