

Max's Geometry Detective Log

Learning objective: To identify, describe, and classify 2D shapes based on their properties, including the number of sides and line symmetry.

Max the monkey is on a mission to find shapes in the real world! Choose three different 2D shapes you can see around your classroom or home. Use this log to record their features and help Max complete his maths puzzle. Remember to use a ruler for your drawings and check for lines of symmetry.

Word bank: polygon · vertex · parallel · symmetry · quadrilateral · angle · sides

1. Shape 1: Name your shape and describe its properties (number of sides, vertices, and whether it has any lines of symmetry). (2 marks)

2. Shape 2: Identify a quadrilateral you found. Explain why it fits this category. (2 marks)

3. Shape 3: Describe the angles of this shape. Are they all the same size, or are there different types? (2 marks)

4. Compare: Pick two of your shapes. How are they different from each other? (3 marks)

5. Challenge: If you drew a line of symmetry through your first shape, what would happen? Would both sides match exactly? (2 marks)

Extension challenge: Find a shape that has at least two lines of symmetry. Draw it on the back of this sheet and mark the lines of symmetry using a dashed line.