

Max's Pattern and Shape Challenge

Learning objective: To identify, complete, and explain visual patterns and sequences using logic and spatial reasoning.

Hello! Max the monkey loves solving puzzles. Look closely at the shapes and patterns. Use your logic to find the answers. Write your answers clearly on the lines provided.

Max has found a box of shapes. He wants to put them in order. Can you help him finish his puzzles?

Word bank: Rotate · Sequence · Pattern · Reflect · Clockwise · Match

1. 1. Look at this sequence: A square, a triangle, a square, a triangle. What shape comes next? Draw it below. (2 marks)

2. 2. A shape is turned 90 degrees clockwise. If it was pointing UP, which way is it pointing now? (3 marks)

3. 3. Max has three items: a book (£2.50), a pencil (£1.00), and a ruler (£0.50). If the pattern of the prices continues, what is the next logical item price? Explain your answer. (4 marks)

4. 4. Look at these two shapes. They are mirror images of each other. Draw the reflection of a simple letter 'L' on the other side of a dashed line. (3 marks)

5. 5. Max sees a pattern of stars: 1 star, 2 stars, 4 stars, 8 stars. Describe the rule for this pattern and draw what comes next. (5 marks)

Draw: Draw a pattern that uses at least two different colours and two different shapes. Make sure the pattern repeats itself at least three times.



Extension challenge: Total: /25. Challenge: Can you create your own sequence of shapes for a friend to solve? Write down the rule for your sequence at the bottom of the page.