Max’s Pattern Puzzles

Learning objective: To identify and continue sequences of shapes and patterns using logic and observation.

Help Max the monkey solve these logic puzzles. Look closely at how the shapes change, rotate, or move, and draw what comes next in the sequence.

Max loves to visit the local park to play with his wooden blocks. He notices that when he lines them up in a special order, they create a clever pattern. To solve a non-verbal reasoning puzzle, Max always follows three steps: First, he looks at the shape. Second, he checks if the shape has turned or flipped. Third, he counts how many sides the shape has. Today, Max has set up a series of puzzles for you to solve using these same steps.

Word bank: sequence · pattern · rotate · clockwise · symmetry · shape · logic

1. In a sequence, a triangle points up, then a triangle points down, then a triangle points up. Which direction should the next triangle point? Explain why. (2 marks)

2. A square has a dot in the top-right corner. The next square has a dot in the bottom-right. Where will the dot be in the third square if it moves in a clockwise direction? (2 marks)

3. If a pattern shows a circle, then a square, then a pentagon (5 sides), what shape should come next to continue the pattern of increasing sides? (2 marks)

4. Look at this sequence: Blue circle, Red square, Blue circle, Red square. What are the next two shapes in the sequence? (2 marks)

5. Max has 3 shapes: a star, a diamond, and a heart. If he swaps the star and the heart, what is the new order? (2 marks)

Draw: Draw a pattern that uses three different shapes that repeat twice. Ensure your pattern follows a clear, logical rule.

Extension challenge: Create your own non-verbal reasoning puzzle for a friend. Try to include a 'rotation' rule, such as turning a shape 90 degrees each time.