Max’s Pattern Puzzle Challenge

Learning objective: To identify, describe, and continue visual patterns using logical thinking and spatial reasoning.

Max the monkey loves finding patterns in everything around him! Use this template to create your own logic puzzles. Look at the sequence of shapes or colours, decide on a rule, and then challenge a friend to solve it.

Word bank: sequence · pattern · rotate · symmetry · logical · predict · shape · repeat · clockwise · anticlockwise

1. The Pattern Rule: Describe the rule for your sequence. Does it rotate, change size, or add a new shape each time? (2 marks)

2. The Sequence Drawing: Draw the first three steps of your pattern here. What comes next? (3 marks)

3. The Missing Piece: If your pattern continued to the fifth step, what would it look like? Explain your reasoning. (2 marks)

4. Spot the Mistake: Imagine you drew a pattern but made a mistake on purpose. How would you change one shape to break the pattern? (2 marks)

5. Max’s Challenge: Write a clue for your friend to help them guess the next shape in your sequence without seeing the whole thing. (2 marks)

Extension challenge: Create a pattern that uses money! Use 1p, 2p, 5p, 10p, 20p, and 50p coins to make a sequence that adds up to a specific total, like £1.00.