

# 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 colors, 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)**

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

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

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**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)**

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**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)**

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*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.*