Zara’s Brilliant Pattern Hunt

Learning objective: I can identify, create, and describe patterns using shapes and colours.

About 15 minutes. Grown-up tip: Look for patterns around your home, like on kitchen tiles, fabric prints, or even in the garden!

Read each question carefully. Zara the zebra loves finding patterns in the world around her! Look for the repeating parts to help you solve the puzzles. Example: If the pattern is 'red, blue, red, blue', the next shape is 'red'.

Answer Key: 1.B, 2.True, 3.A, 4.motif, 5.C, 6.False, 7.B, 8.True, 9.A, 10.sequence. For Question 10, a good answer describes the repeating order of shapes or colours clearly.

Word bank: repeating · sequence · symmetry · motif · tessellation

1. 1. Zara sees a pattern on a butterfly: spot, stripe, spot, stripe. What comes next? A) Stripe B) Spot* C) Triangle D) Square (1 mark)

2. 2. True or False: A pattern is a design that repeats in a predictable way. (1 mark)

3. 3. Which of these shows a repeating pattern? A) Circle, Square, Circle, Square* B) Circle, Star, Triangle, Heart C) Square, Square, Circle, Triangle D) Star, Star, Star, Square (1 mark)

4. 4. A single shape or design used to make a pattern is called a _____. (1 mark)

5. 5. Look at this pattern: 2, 4, 6, 8, ?. What is the next number? A) 9 B) 12 C) 10* D) 7 (1 mark)

6. 6. True or False: Patterns can only be found in maths books, not in nature. (1 mark)

7. 7. What do we call a pattern where shapes fit together perfectly with no gaps? A) Random B) Tessellation* C) Symmetry D) Sketching (1 mark)

8. 8. True or False: A line of symmetry means one side is a mirror image of the other. (1 mark)

9. 9. If you colour a border red, green, red, green, what is the 'core' of the pattern? A) Red, Green* B) Red, Red C) Green, Green D) Green, Red, Red (1 mark)

10. 10. Look at the sequence: Oak leaf, Robin, Oak leaf, Robin. Explain what the next two items will be and why. Give a reason. (1 mark)

Draw: A friendly zebra named Zara holding a sketchbook, standing in a garden filled with flowers that have clear, repeating petal patterns.

Extension challenge: Design your own original 'super-pattern' using at least three different shapes and two different colours. Draw it in your sketchbook!

I did it! Name: _____ Date: _____

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