

Zara's Rangoli Pattern Design

Learning objective: To understand the cultural significance of Diwali Rangoli patterns and apply knowledge of geometric symmetry to create an original design.

Follow Zara the Zebra's lead! She sees patterns everywhere. Today, you are going to research the history and purpose of Rangoli, then plan your own design. Use the sections below to explain your choices and describe how you will use symmetry to make your pattern balanced and beautiful.

Word bank: symmetry · geometric · diwali · tradition · vibrant · reflection · pattern · culture · celebration

1. The History of Rangoli: What is the purpose of creating Rangoli patterns during the festival of Diwali, and where are they usually placed? (2 marks)

2. Design Inspiration: What shapes (such as triangles, circles, or squares) will you include in your pattern to make it look traditional? (2 marks)

3. Using Symmetry: Explain how you will use a line of symmetry to ensure your design looks balanced and tidy. (3 marks)

4. Color Choices: Which colors will you choose for your Rangoli, and why are these specific colors important for the festival? (2 marks)

5. Refining the Pattern: If you were to create this design using colored sand or flower petals, what challenges might you face and how would you solve them? (2 marks)

Extension challenge: Design a 'tessellating' Rangoli pattern on squared paper. This means your shape must repeat over and over without any gaps or overlaps.