

Zara's Rangoli Design Studio

Learning objective: To explore the cultural significance of Diwali Rangoli patterns and apply geometric symmetry and color theory to original designs.

Welcome to Zara's studio! Today, you are going to plan your own Rangoli design. Rangoli is a traditional Indian art form where patterns are created on the floor using materials like colored rice, sand, or flower petals to welcome guests and bring good luck. Use the sections below to plan your design, thinking carefully about symmetry, patterns, and the meaning behind your choices.

Word bank: Symmetry · Geometric · Tessellation · Vibrant · Culture · Traditional · Pattern · Celebration · Intricate

1. Cultural Inspiration: Explain why Rangoli patterns are traditionally created at the entrance of homes during the festival of Diwali. (3 marks)

2. Design Planning: Describe the geometric shapes you intend to include in your pattern. How will you ensure your design displays line symmetry? (3 marks)

3. Color Theory: Justify your choice of colors. Which colors will you use to create a sense of harmony and energy in your design? (2 marks)

4. Compare and Contrast: Compare the Rangoli art form to other types of patterns you have seen in nature. What similarities can you identify? (3 marks)

5. Justify your answer: If you were to create this design on a larger scale for a community event, what materials would you choose and why? (3 marks)

6. What might happen if you did not use a central focal point in your Rangoli? How would this affect the viewer's experience? (3 marks)

Extension challenge: Challenge: Design a tessellating pattern using only two shapes. Explain how you ensured the shapes fit together perfectly without leaving any gaps. How does this mathematical precision change the overall aesthetic of your piece compared to a free-hand design?