

Creating Symmetrical Designs

Chapter 10: Symmetrical Designs · Topic 2

Key Concept

To create a symmetrical design, we can draw half of a design on one side of a line, then fold the paper to trace or press an identical mirrored half.

Using grid paper helps us create precise symmetrical designs by copying the same pattern of squares on both sides of the line of symmetry.

We can create symmetrical designs with multiple lines of symmetry too, like a snowflake pattern, which often has several lines of symmetry radiating from the centre.

Creating symmetrical designs is both a creative art activity and a way to deepen our understanding of geometry and balance.

Quick Revision Notes

- We can fold paper to create mirrored symmetrical halves.
- Grid paper helps create precise symmetrical designs.
- We copy the same pattern on both sides of the symmetry line.
- Some designs have multiple lines of symmetry, like snowflakes.
- Snowflake patterns radiate symmetry from the centre.
- Creating symmetry combines art and geometry.
- This activity deepens understanding of balance.
- Precision matters when creating symmetrical designs.

Practice Questions

- 1 Fold paper and create a symmetrical butterfly or heart design.
- 2 Use grid paper to design a symmetrical pattern.
- 3 Create a snowflake design with multiple lines of symmetry.
- 4 Check your design's accuracy by folding it.
- 5 Share your symmetrical design with a friend.
- 6 Create a symmetrical design inspired by nature.