

Creating Symmetric Patterns

Chapter 11: Fun with Symmetry · Topic 2

Key Concept

To create a symmetric pattern, we can draw one half of a design, then fold the paper and trace or press to create a mirrored other half.

Symmetric patterns are common in art, architecture, and nature, like butterfly wings, mandalas, and many rangoli designs.

Using grid paper can help us create accurate symmetric patterns by counting squares equally on both sides of the line of symmetry.

Creating symmetric patterns helps us understand symmetry more deeply while also being a fun and creative art activity.

Quick Revision Notes

- Symmetric patterns have mirrored halves.
- We can fold paper to create symmetric designs.
- Symmetric patterns appear in art and nature.
- Butterfly wings and mandalas show symmetry.
- Grid paper helps create accurate symmetric patterns.
- Counting squares equally ensures symmetry.
- Creating patterns deepens our understanding of symmetry.
- This is both an educational and creative activity.

Practice Questions

- 1 Fold paper and create a symmetric butterfly design.
- 2 Use grid paper to create a symmetric pattern.
- 3 Find a symmetric pattern in nature and sketch it.
- 4 Create a symmetric rangoli-style design.
- 5 Design your own mandala with symmetry.
- 6 Share your symmetric pattern with a friend and check its accuracy.