

Student Name: _____

Class: _____

Due Date: _____

Introduction to Symmetry

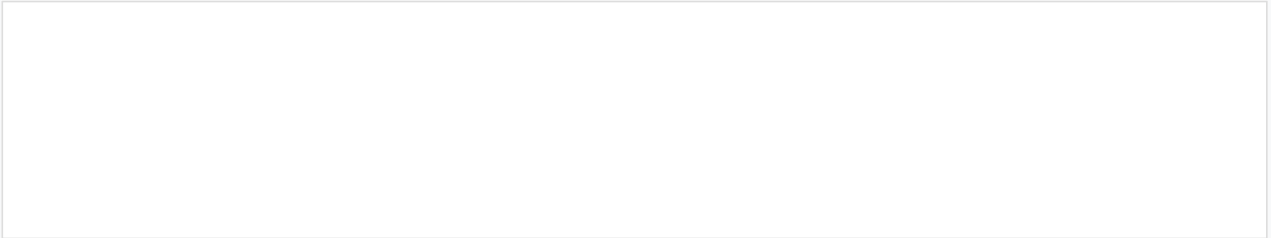
Symmetry is a fundamental concept in mathematics and art. It is the quality of being made up of exactly similar parts facing each other or around an axis. In this worksheet, we will explore the concept of line symmetry and create symmetric shapes and patterns using various techniques.

What is Line Symmetry?

Line symmetry is a type of symmetry that can be found in many natural and man-made objects. It is characterized by a line that divides the object into two identical parts, with one part being a mirror image of the other.

Example: A butterfly's wings are symmetric, with one wing being a mirror image of the other.

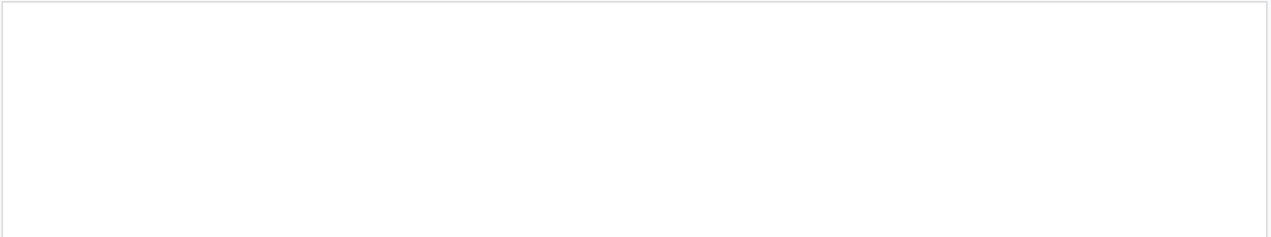
Draw a picture of a butterfly and identify the line of symmetry.



Creating Symmetric Shapes

Folding Symmetry: Fold a piece of paper in half and cut out a shape on one half of the paper. Unfold the paper to create a symmetric shape.

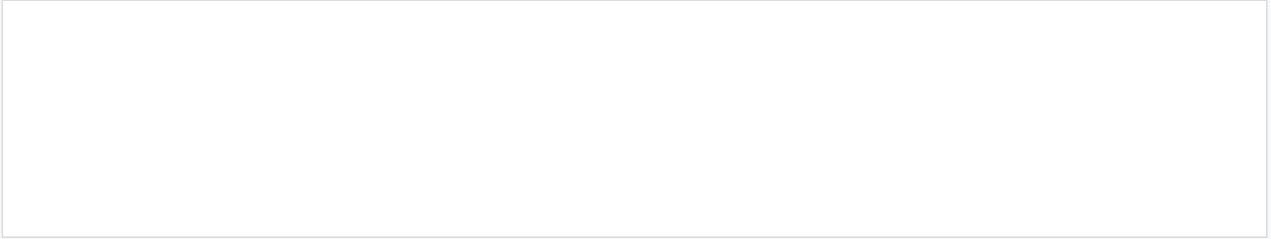
Create a symmetric shape using folding and cutting techniques.



Symmetric Patterns

Blobbing Symmetry: Use paint or ink to create a symmetric pattern on a piece of paper.

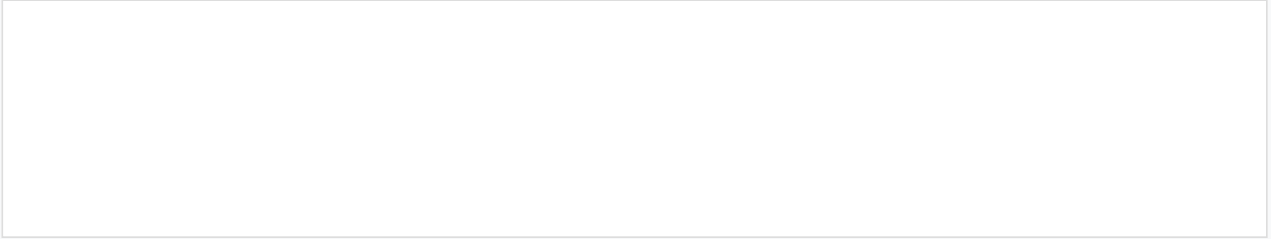
Create a symmetric pattern using blobbing techniques.



Real-Life Examples of Symmetry

Symmetry in Nature: Butterflies, flowers, snowflakes

Identify and draw examples of symmetry in nature.



Symmetry in Art and Design

Creating Symmetric Art: Use various materials, such as paper, scissors, and glue, to create a symmetric art piece.

Create a symmetric art piece using different materials and techniques.

Symmetry Quiz

1. What is the definition of line symmetry?

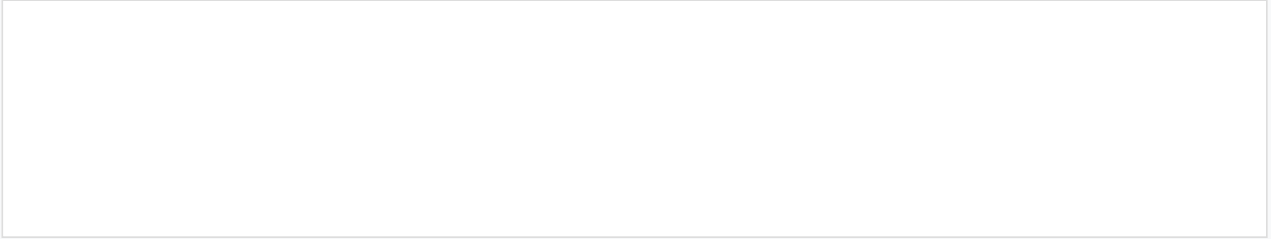
2. Can you give an example of a symmetric shape in nature?

3. How can you create a symmetric shape using folding and cutting techniques?

Symmetry Word Search

Find and circle the words related to symmetry.

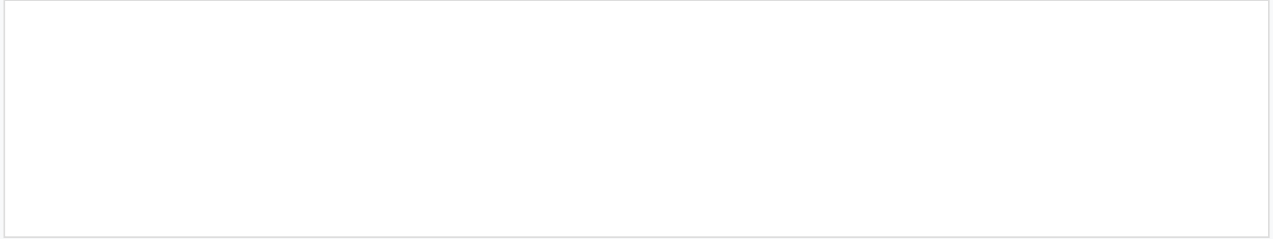
Word search puzzle with vocabulary related to symmetry



Symmetry Drawing

Draw a Symmetric Shape: Draw a symmetric shape using a ruler and pencil.

Draw a symmetric shape and identify the line of symmetry.



Conclusion

In this worksheet, we explored the concept of line symmetry and created symmetric shapes and patterns using various techniques.

Reflection: What did you learn about symmetry? How can you apply the concept of symmetry in your everyday life?