



Symmetry is everywhere, but it's often hard to notice. This lesson explores a few ways to identify it. By folding and making mirror images for different shapes, students will discover a new world of symmetrical figures.

Learning Objectives

- Students will be able to identify symmetrical figures, draw lines of symmetry, and explain why or why not a figure has symmetry.

Materials and preparation

- Large image of a butterfly with outstretched wings
- Heart, triangle, and square cut from construction paper
- Small hand mirrors
- Brightly colored pieces of yarn (each approximately four inches in length)
- Sandwich bags containing different symmetrical and non-symmetrical shapes cut from white paper
- Lined paper

Key terms

- symmetry
- line of symmetry

Introduction (5 minutes)

- Display the image of the butterfly.
- Ask the class to share some things they notice about the image. Some guiding questions you could ask are: What are the colors of the butterfly's wings? How are the wings shaped?
- Once students touch on the idea that the wings match in some way, introduce the word "symmetry." Explain that something has **symmetry** if it can be split into two mirror-image halves. For example, a butterfly is symmetrical because you can fold a picture of it in half and see that both sides match.

Explicit Instruction/Teacher modelling: (10 minutes)

- Let your students know that the next activity will involve using a mirror to check figures for symmetry. Model the checking process before having students begin the activity.
- Hold up the construction paper heart, then hold up a mirror across its center to reflect its left half. Lift the mirror and ask students whether the reflection matches what's behind the mirror.
- Think aloud to confirm whether the figure is symmetrical. Ask and answer the following questions: The right half seems to match the reflection of the left half, but would the two halves match if we'd fold it? Are the two halves the same size and shape? If the answer is yes for both, then the heart is symmetrical.
- Check for symmetry in other directions by holding the mirror across different parts of the heart and repeating the process of thinking aloud.

4th Grade Symmetry Lesson Plans

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