

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 modeling (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 I were to 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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