

Simply Symmetry!

Fourth Grade

Math

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

Lei Huang



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Everyday Mathematics 4 Grade Teacher's Lesson Guide Volume 2 Max Bell,2004 Contains easy to follow three part daily lesson plans This assists teachers in focusing on lesson objectives providing ongoing practice for all students and addressing individual student needs for a variety of populations A unit organizer provides learning goals planning and assessment support content highlights a materials chart suggestions for problem solving cross curricular links and options for individualizing Each guide is grade level specific

Resources in Education ,1976-12 Research in Education ,1970

IMAGES Janie L. Zimmer,Arlene Dowshen,Dennis C. Ebersole,2004 Mathematics for the Elementary School, Grade 4 [-6] School Mathematics Study Group,1962 **Mathematics Methods for the Elementary and Middle School** Mary M. Hatfield,1993 Think Math! Plane Figures and Spatial Sense, Grade 2 Harcourt School Publishers,2005-11 **Bowker's Complete Video Directory** ,2000 **A Guide to Observation, Participation, and Reflection in the Classroom** Arthea J. S. Reed,Verna E. Bergemann,2005 This guide provides you with a practical resource for school based observations teaching experiences and reflection that not only will bridge the gap between the world of the student and the world of the teacher but also will help you connect the world of theory with the world of practice Includes completed and sequential sample forms of anecdotal and structured observations and template forms at the back of the text and on the CD ROM This edition covers the No Child Left Behind legislation discussion of the INTASC core standards and principles and their integration into the sample forms Expanded guidance on portfolio development including new sections on how to start a portfolio and expanded coverage of inclusion and resources for observing diversity in the classroom Scott Foresman-Addison Wesley Mathematics ,2008 **Mathematics on the Internet** Jerry A. Ameis,2006 Aligned with NCTM Standards this brief book helps teachers in elementary middle and high schools to become better acquainted with some of the resource materials and information available on the Internet for teaching mathematics **FEATURES** Annotated list of websites Contains a list of websites that offer resources for teaching mathematics and professional development opportunities Reduces time teachers spend searching for these resources **NEW** receive a code to a website that links you directly to each URL listed in the book **Examples** Presents additional useful examples on using the Internet Assists readers in using and understanding the developing world of information technology for teaching mathematics **NCTM Principles and Standards for School Mathematics overview** Provides useful information regarding mathematics reform presents an example of teaching mathematics that reflects the NCTM standards and gives students a clear basis for understanding modification in mathematics Mathematical Thinking at Grade 4 Cornelia C. Tierney,2006 Mathematics for the Elementary School School Mathematics Study Group,1965 **Mathematics for the Elementary School, Grade[s] 4 [-6].** School Mathematics Study Group,1963 **Elementary and Middle School Mathematics** John A. Van de Walle,2007 This leading K 8 math methods book has the most coverage of the NCTM standards the strongest coverage of middle school mathematics

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