

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

Minjie Lin



4th Grade Symmetry Lesson Plans:

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

and the highest student approval of any math methods book currently available Elementary and Middle School Mathematics provides an unparalleled depth of ideas and discussion to help readers develop a real understanding of the mathematics they teach John Van de Walle one of the foremost experts on how children learn mathematics finds that 80 percent of the students who purchase this book keep it for reference when they begin their professional teaching careers This book reflects the NCTM Principles and Standards and the benefits of constructivist or student centered mathematics instruction Improvements for the sixth edition include sections on planning for a diverse classroom and a completely new section addressing planning in a classroom where there are English language learners

Understanding the Math You Teach
Anita C. Burris, 2005 Teaching strategies are grounded in the NCTM standards and illustrated with real student work In addition the author provides a full range of concrete developmental activities that encourage future teachers to make math make sense for themselves as well as for their students Believing that teachers who are comfortable with mathematics develop learners who are comfortable with mathematics this author empowers preservice preK 4 teachers to teach math confidently by laying a solid foundation of math concepts and building on that foundation with engaging meaningful standards based teaching methods Integrated in this unique combined approach to teaching mathematics is a thorough discussion of math manipulatives as well as the use of technology computer and otherwise to assist today s mathematics teacher For educators aids and parents responsible for teaching Pre K to fourth grade math

Journal for Research in Mathematics Education ,1980 *The Architect* ,1889 **Resources in Education** ,1997 **New Visions for Linking Literature and Mathematics** David Jackman Whitin, Phyllis Whitin, 2004 In this copublication by the National Council of Teachers of English and the National Council of Teachers of Mathematics David and Phyllis Whitin offer K 6 teachers a wealth of ideas for integrating literature and mathematics including specific criteria for evaluating math related books with emphasis on inquiry critical thinking diversity and individual challenge practical discussions about books and their use in K 6 classrooms an in depth look at problem posing and book pairs as effective strategies for engaging all students explicit connections made to NCTM s Principles and Standards for School Mathematics and NCTE and IRA s Standards for the English Language Arts interesting sidebars of extension activities and text sets practical strategies for introducing math related books to children and an annotated list of the best math related literature available This is a book filled with numerous examples of children s work many of which are drawn from widely diverse multicultural classrooms Each chapter discusses a range of books and classroom applications to show how teachers can skillfully integrate such books to meet school objectives in language arts and mathematics It is this dual perspective that makes the book unique With its inviting tone and practical suggestions New Visions for Linking Literature and Mathematics is an invaluable resource for the elementary school classroom

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