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# Math Arts And Crafts

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The Artful Maths Activity Book  
Fabulous Fractions  
Art from Simple Shapes  
All about Me  
The Art and Craft of Problem Solving  
Ed Emberley's Picture Pie  
There's Math in My Origami!  
Place Value  
Creative Kids Zone, Grade PK  
Science Art and Drawing Games for Kids  
The Ghost's Dinner  
Learn to Program with Small Basic  
Numbers in Motion  
Real-World Math for Hands-On Fun!  
Artful Math Activity Book  
Crafting by Concepts  
Mouse Shapes  
Learn-the-Alphabet Arts and Crafts  
Mathematics and Art  
Cool String Art: Creative Activities that Make Math & Science Fun for Kids!  
First Lessons In...  
Organic Crafts  
Pablo's Paper Crafts  
Project Origami  
Arts and Crafts Across the Curriculum  
Origami Arts and Crafts  
Math as a Creative Process  
Cool Outdoor Arts & Crafts: Great Things to Do in the Great Outdoors  
Complete SummerSmart: Grade K-1  
Math Art  
Arts and Crafts  
Math Art and Drawing Games for Kids  
Making Mathematics with Needlework  
Terrific Topics: Fall; Includes Activities in Language Arts, Math, Arts and Crafts,  
Music, Science, and Social Awareness  
MathArts  
Cracking the Third Grade - Reading and Math  
The Garden Classroom  
Good Earth Art  
STEAM Power

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**The Artful Maths Activity Book** The Rosen Publishing Group, Inc  
Mathematical craftwork has become extremely popular, and mathematicians and crafters alike are fascinated by the relationship between their crafts. The focus of this book, written for mathematicians, needleworkers, and teachers of mathematics, is on the relationship between mathematics and the fiber arts (including knitting, crocheting, cross-stitch, and quilting). Each chapter starts with an overview of the mathematics and the needlework at a level understandable to both mathematicians and needleworkers, followed by more technical sections discussing the mathematics, how to introduce the mathematics in the classroom through needlework, and how to make the needlework project, including patterns and instructions.

*Fabulous Fractions* Chicago Review Press  
In *Math Art and Drawing Games for Kids*, you'll find an amazing collection of more than 40 hands-on art activities that make learning about math fun! *Make Art + Learn Math Concepts = Become a Math Genius!* Create fine art-inspired projects using math, including M. C. Escher's tessellations, Wassily Kandinski's abstractions, and Alexander Calder's mobiles. Make pixel art using graph paper, grids, and dot grids. Explore projects that teach symmetry with mandala drawings, stained glass rose window art, and more. Use equations, counting, addition, and multiplication to create Fibonacci and golden rectangle art. Play with geometric shapes like spirals, hexagrams, and tetrahedrons. Learn about patterns and motifs used by cultures from all over the world, including Native American

porcupine quill art, African Kente prints, and labyrinths from ancient Crete. Cook up some delicious math by making cookie tangrams, waffle fractions, and bread art. Take a creative path to mastering math with *Math Art and Drawing Games for Kids!*

*Art from Simple Shapes* No Starch Press  
Make learning the alphabet fun and exciting with these easy-to-do arts-and-crafts activities. Learn one new letter each week by creating letter-based art projects that they add to their own keepsake alphabet books.

*All about Me* The Experiment

The worlds of visual art and mathematics beautifully unite in this spectacular volume by award-winning writer Stephen Ornes. He explores the growing sensation of math art, presenting such pieces as a colorful crocheted representation of non-Euclidian geometry that looks like sea coral and a 65-ton, 28-foot-tall bronze sculpture covered in a space-filling curve. We learn the artist's story for every work, plus the mathematical concepts and equations behind the art.

*The Art and Craft of Problem Solving* Carson-Dellosa Publishing

*Science Art and Drawing Games for Kids* is a collection of 40+ activities that teach/demonstrate science concepts through art, crafts, and other fun hands-on projects.

*Ed Emberley's Picture Pie* Createspace Independent Publishing Platform  
Guides and instructs both students and parents on the basics of reading and mathematics for the third grade, including exercises and practice tests, and how to use the exercises in the book effectively.

**There's Math in My Origami!** Tarquin Group  
Parents, teachers, and caregivers

looking for ideas on how to get children outdoors and instill in them a love of nature can find more than 75 creative crafts, games, and activities using objects that kids can collect from nature in this idea book. As children make race cars out of rocks, create paint from plants, and assemble funny grass masks, they learn to be environmentally friendly—absorbing information on recycling, reducing waste, and inspiring others to protect nature. Organized by the various natural materials needed, the crafts offer a new twist on perennial homemade gifts and school projects.

**Place Value** Bright Ring Publishing  
From the editors of the popular *Making Mathematics with Needlework*, this book presents projects that highlight the relationship between types of needlework and mathematics. Chapters start with accessible overviews presenting the interplay between mathematical concepts and craft expressions. Following sections explain the mathematics in more detail, and provide suggestions for classroom activities. Each chapter ends with specific crafting instructions. Types of needlework included are knitting, crochet, needlepoint, cross-stitch, quilting, temari balls, beading, tatting, and string art. Instructions are written as ordinary patterns, so the formatting and language will be familiar to crafters.

**Creative Kids Zone, Grade PK** CRC Press  
This book is designed to provide activities that correlate with learning standards in the areas of language arts, math, science, and social studies.

**Science Art and Drawing Games for Kids** Holiday House

*Math as a Creative Process: Using Arts, Crafts, and Cooking to Decipher Math Concepts* integrates a variety of craft and hobby situations with broad math

applications. Students are guided through problem scenarios using different methods of math reasoning and varied approaches to problem solving. Problem sets are supported by detailed explanations and illustrated solutions, presented in a logical step-by-step format. Recommended for students grades 5 through 8. About the author: Hal Torrance has worked as a teacher in a variety of elementary and middle school settings. He's also taught high school mathematics for college-bound students. In 1997 he began writing articles, books, and testing materials for educational publishers, eventually authoring over two dozen titles. He now publishes his own line of books for the education market, focusing primarily on mathematics.

*The Ghost's Dinner* Princeton Review  
*Complete SummerSmart* is an all-in-one, curriculum-based workbook series for children to review the essential concepts they learned in the previous school year and sharpen their skills so that they are well prepared for the next year. Each of the eight units in the book covers English, Math, Science, Social Studies, Arts and Crafts, and Fun Places to Go in Summer. At the end of the book are Health Tips that provide simple and practical ways for children to boost their well-being, and detachable charts and awards that help them keep track of their progress and encourage them along the way. Children will love our online content - safety tips, video stories, and hands-on activities - which is accessible through the provided QR code. With *Complete SummerSmart*, little learners will enjoy the fun of learning all summer long and start the new school year with confidence.  
*Learn to Program with Small Basic* CRC Press

Full-color guide explores wealth of possibilities behind basic geometric shapes. Includes ruler with stencil shapes and step-by-step instructions for more than 125 drawings: houses, boats, buildings, animals, everyday objects, and more.

*Numbers in Motion* Enslow Publishing, LLC

The wonderful thing about mathematical art is that the most beautiful geometric patterns can be produced without needing to be able to draw, or be 'good at art'. Mathematical art is accessible to learners of all ages: its algorithmic nature means that it simply requires the ability to follow instructions carefully and to use a pencil and ruler accurately. It is engaging, enriching, thoroughly enjoyable and is a great leveller in the classroom. Learners who may not normally shine in mathematics lessons will take your breath away with their creativity. Those who struggle with their mathematics will experience the joy of success through their mathematical art-making. The six Artful Maths activities in this book are hands-on tasks that will develop important skills such as hand-eye co-ordination, manual dexterity and design thinking, which is a valuable form of problem-solving. Decisions need to be made about placement, size and colour, all of which entail thinking about measurements, proportions and symmetry. They can be undertaken alone or with a teacher to draw out the mathematics underlying the patterns and to practice key content in the school curriculum. For ages 9 to 16+. Contents: Curves of Pursuit, Mazes and Labyrinths, Impossible Objects, Epicycloids, Perfect Proportions, Parabolic Curves.

*Real-World Math for Hands-On Fun!* CRC Press

Three mice make a variety of things out

of different shapes as they hide from a scary cat.

*Artful Math Activity Book* CreateSpace Project Origami: Activities for Exploring Mathematics, Second Edition presents a flexible, discovery-based approach to learning origami-math topics. It helps readers see how origami intersects a variety of mathematical topics, from the more obvious realm of geometry to the fields of algebra, number theory, and combinatorics. With over 100 new pages, this updated and expanded edition now includes 30 activities and offers better solutions and teaching tips for all activities. The book contains detailed plans for 30 hands-on, scalable origami activities. Each activity lists courses in which the activity might fit, includes handouts for classroom use, and provides notes for instructors on solutions, how the handouts can be used, and other pedagogical suggestions. The handouts are also available on the book's CRC Press web page. Reflecting feedback from teachers and students who have used the book, this classroom-tested text provides an easy and entertaining way for teachers to incorporate origami into a range of college and advanced high school math courses. Visit the author's website for more information.

**Crafting by Concepts** WorthyKids

After readers familiarize themselves with the origami symbols and easily accessible types of paper to use, they will follow illustrated step-by-step instructions to create fun origami arts and crafts such as a bracelet, a piano, a sailboat, and a colorful dodecahedron. A glossary helps readers learn new vocabulary, and a further reading section with books and websites encourages further exploration of the topic.

**Mouse Shapes** Chicago Review Press  
35 creative origami designs plus brain-teasing math questions add up to the perfect math activity for kids Discover how fractions, shapes, and symmetry turn a flat sheet of paper into a 3D work of art! Each one of the 35 amazing projects in *There's Math in My Origami!* invites kids to: Follow the simple, step-by-step instructions Flex their math skills by answering a fun quiz question Fold adorable origami like they've never seen before! Includes educational projects for kids ages 7 and up—plus 2 pages of eye stickers, and 80 sheets of origami paper!

### **Learn-the-Alphabet Arts and Crafts**

John Wiley & Sons

Henry the Ghost hosts a dinner party and discovers that his guests begin to resemble the menu.

Mathematics and Art ABDO

For use in schools and libraries only.

Shows how to cut a basic circle into arcs and curves and use the pieces to draw birds, animals, snowmen, fish, and many other objects and designs.

### **Cool String Art: Creative Activities that Make Math & Science Fun for Kids!**

Sterling New York

Discover how to do cool things with math in your everyday life.

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