

# Foldable 3d Math Shapes

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**The Geometry of Wholemovement** - Bradford Hansen-Smith 1999

ICSE-Math Hub-TB-06 - S Purkayastha

ICSE-Math Book

If I Built a House - Chris Van Dusen 2012-10-25

The much-anticipated follow-up to the E. B. White Award-winning picture book *If I Built a Car* In *If I Built a Car*, imaginative Jack dreamed up a whimsical fantasy ride that could do just about anything. Now he's back and ready to build the house of his dreams, complete with a racetrack, flying room, and gigantic slide. Jack's limitless creativity and infectious enthusiasm will inspire budding young inventors to imagine their own

fantastical designs. Chris Van Dusen's vibrant illustrations marry retro appeal with futuristic style as he, once again, gives readers a delightfully rhyming text that absolutely begs to be read aloud.

Active Origami - Edwin A. Peraza Hernandez 2018-07-12

Origami structures have the ability to be easily fabricated from planar forms, enable the deployment of large structures from small volumes, and are potentially reconfigurable. These characteristics have led to an increased interest in theoretical and computational origami among engineers from across the world. In this book, the principles of origami, active materials, and solid mechanics are combined to present a full theory for origami structures. The focus is on origami structures morphed via

active material actuation and formed from sheets of finite thickness. The detailed theoretical derivations and examples make this an ideal book for engineers and advanced students who aim to use origami principles to develop new applications in their field.

*Sir Cumference and the Sword in the Cone* - Cindy Neuschwander

2013-01-07

A funny and pun-filled retelling of “The Sword and Stone” that introduces readers to mathematical angles. King Arthur has hidden his sword, Edgecalibur and issued a challenge to the knights. The first knight to find the sword will be the next king. Can Sir Cumference and Lady Di point Radius's best friend, Vertex in the right direction? Will Vertex's sharp thinking give him the edge? Join Sir Cumference, Lady Di of Ameter, and their son, Radius, in this new adventure where they race to help Vertex find the sword and discover the secrets of cubes, pyramids, cylinders, and cones.

*Origami and Math* - John Montroll 2012

Presents instructions for folding thirty-nine origami models, from geometrical figures to an elephant--each made from a single sheet of paper--that emphasize the mathematical principles behind each design.

*Make Shapes 2* - Gerald Jenkins 1978

Children love making these beautiful shapes which are such fun to

decorate. Each model is printed on crisp white paper ready to cut out and glue together. There are at least 12 hours of enjoyment in each book and the finished models make a fine collection. There are plenty of suggestions and ideas for colouring and decoration. A fantastic way to extend 3D geometry for children - at home or in class. Makes an excellent gift or prize The sister book, *Make Shapes 1* contains slightly less complex models.

*From MEMS to Bio-MEMS and Bio-NEMS* - Marc J. Madou 2011-06-13

*From MEMS to Bio-MEMS and Bio-NEMS: Manufacturing Techniques and Applications* details manufacturing techniques applicable to bionanotechnology. After reviewing MEMS techniques, materials, and modeling, the author covers nanofabrication, genetically engineered proteins, artificial cells, nanochemistry, and self-assembly. He also discusses scaling laws in MEMS and NEMS, actuators, fluidics, and power and brains in miniature devices. He concludes with coverage of various MEMS and NEMS applications. Fully illustrated in color, the text contains end-of-chapter problems, worked examples, extensive references for further reading, and an extensive glossary of terms. Details the Nanotechnology, Biology, and Manufacturing Techniques Applicable to Bionanotechnology Topics include: Nonlithography manufacturing techniques with lithography-based methods Nature as an engineering

guide and contrasts top-down and bottom-up approaches Packaging, assembly, and self-assembly from ICs to DNA and biological cells Selected new MEMS and NEMS processes and materials, metrology techniques, and modeling Scaling laws, actuators, power generation, and the implementation of brains in miniaturizes devices Different strategies for making micromachines smarter The transition out of the laboratory and into the marketplace The third volume in Fundamentals of Microfabrication and Nanotechnology, Third Edition, Three-Volume Set, the book discusses top-down and bottom-up manufacturing methods and explains how to use nature as a guide. It provides a better understanding of how to match different manufacturing options with a given application that students can use to identify additional killer MEMS and NEMS applications. Other volumes in the set include: Solid-State Physics, Fluidics, and Analytical Techniques in Micro- and Nanotechnology Manufacturing Techniques for Microfabrication and Nanotechnology

#### Origamics - Kazuo Haga 2008

The art of origami, or paper folding, is carried out using a square piece of paper to obtain attractive figures of animals, flowers or other familiar figures. It is easy to see that origami has links with geometry. Creases and edges represent lines, intersecting creases and edges make angles, while the intersections themselves represent points. Because of its manipulative

and experiential nature, origami could become an effective context for the learning and teaching of geometry. In this unique and original book, origami is an object of mathematical exploration. The activities in this book differ from ordinary origami in that no figures of objects result. Rather, they lead the reader to study the effects of the folding and seek patterns. The experimental approach that characterizes much of science activity can be recognized throughout the book, as the manipulative nature of origami allows much experimenting, comparing, visualizing, discovering and conjecturing. The reader is encouraged to fill in all the proofs, for his/her own satisfaction and for the sake of mathematical completeness. Thus, this book provides a useful, alternative approach for reinforcing and applying the theorems of high school mathematics.

**Math — No Problem! Geometry and Shape, Grade 2 Ages 7-8 - Math - No Problem!** 2022-11-01

PLEASE NOTE: This is a replica of the print book and a pen and paper is needed to complete the exercises. Each ebook in this unique Math Mastery collection developed by experts covers all the essential skills for children in the first stages of their math journey. Each topic is supported by clear examples and helpful hints to encourage proficiency. Aimed at children aged 7-8, topics include numbers, counting, addition and subtraction, time and shape, measuring, and math practice. This collection

is attractively illustrated and led by appealing characters who offer helpful tips to children (and parents) that make learning accessible and interesting. Every child can learn Math with Math Mastery.

**Make: Paper Inventions** - Kathy Ceceri 2015-09-08

Paper is incredible stuff. It's easy to cut, but incredibly strong. It's disposable, but can last for centuries. It can stand as stiff as a board, pop up like a spring, or float like a leaf. And its invention changed the world forever. Perfect for kids, parents, and educators, Paper Inventions is a project-based book with full color illustrations, step-by-step instructions, supply lists, and templates that allow you to follow along with the book or devise something entirely new. Each chapter features new projects that will challenge and intrigue everyone, from beginning to experienced Makers. In this book, you'll learn to make: A light-up paper cat that shows how switches and sensors work An action origami robot worm Edible rice paper perfect for secret messages A space rover that moves thanks to paper machinery A paper generator that creates electricity when you tap or rub it Heat-activated paper models that fold themselves A geodesic dome big enough to crawl into--from newspaper!

**Origami 5** - Patsy Wang-Iverson 2016-04-19

Origami5 continues in the excellent tradition of its four previous incarnations, documenting work presented at an extraordinary series of

meetings that explored the connections between origami, mathematics, science, technology, education, and other academic fields. The fifth such meeting, 5OSME (July 13–17, 2010, Singapore Management University) followed the precedent previous meetings to explore the interdisciplinary connections between origami and the real world. This book begins with a section on origami history, art, and design. It is followed by sections on origami in education and origami science, engineering, and technology, and culminates with a section on origami mathematics—the pairing that inspired the original meeting. Within this one volume, you will find a broad selection of historical information, artists' descriptions of their processes, various perspectives and approaches to the use of origami in education, mathematical tools for origami design, applications of folding in engineering and technology, as well as original and cutting-edge research on the mathematical underpinnings of origami.

**Ornamental Origami** - Meenakshi Mukerji 2020-03-27

This book is a great resource for people who enjoy polyhedra, symmetry, geometry, mathematics and origami. The types of models presented are similar in nature to the models in Mukerji's Marvelous Modular Origami, but some of the chapters are more advanced and all of the designs are new. The reader can learn about polyhedra while making these models and is left with the ability to design one's own models. Step-by-step folding

instructions for over 40 models are presented. Although the book is for intermediate folders, beginners are encouraged to try because origami basics are explained. The diagrams are easy to follow and each model is accompanied by breathtaking finished model photographs.

Math Magic Workbook 04 - Jayanthi Ravi

Math Magic Workbook is a maths practice series for classes 1 to 5 based on NCERT textbook. It provides plenty of interesting and systematic exercise for developing and improving the necessary math skill.

Origami With Explanations: Fun With Folding And Math - Jeanine Meyer

2020-11-17

Find out More Origami with Explanations: Fun with Folding and Math Origami, paper folding, originated hundreds of years ago in China and Japan, with independent discovery and activity across the world. The most familiar origami models are the crane and the flapping bird. This book will introduce you to origami, starting with a jumping frog and including traditional and modern models. Carefully written instructions, using photos and diagrams, will show you the main origami bases, turn you into a successful folder and stimulate your own creativity. Explanations will include attention to spatial relations, geometry, algebra, and pattern finding. The explanations provide insight into the origami while the folding will help your understanding of mathematics.

Handbook Of Mathematical Science Communication - Anna Maria Hartkopf

2022-12-28

Mathematical science communication, as well as the field of science communication in general, has gained momentum over the last few decades. Mathematical science communication aims to inform the public about contemporary research, enhance factual and methodological knowledge, and foster a greater interest and support for the science of mathematics. This enables the public to apply it to their practical life, and to decision-making on a greater scale. These objectives are met in the various formats and media through which mathematical science communication is brought to the public. The first 13 chapters of the book consist of best-practice examples from the areas of informal math education, museums and exhibitions, and the arts. The final 5 chapters discuss the structural aspects of mathematical science communication and contribute to the basis for its theoretical framework.

Oswaal NCERT Teachers & Parents Manual Class 1 Mathematics Math Magic Book (For 2021-22 Exam) - Oswaal Editorial Board 2021-08-19

- It aims to aid the Teachers and Parents in simplifying the concepts studied by children as a part of their curriculum
- It equips the parents and teachers to enable the children to understand the subjects, and also evaluate their measure of understanding and creativity.
- It includes

Learning and Understanding Aids along with a Lesson Plan for each Chapter • It demonstrates Effective Teaching Techniques • It also gives various Propositions for Step-wise Learning and Building up of Concepts  
**Origami Polyhedra Design** - John Montroll 2009-10-26

This book unravels the mystery of Geometry in Origami with a unique approach: 64 Polyhedra designs, each made from a single square sheet of paper, no cuts, no glue; each polyhedron the largest possible from the starting size of square and each having an ingenious locking mechanism to hold its shape. The author covers the five Platonic solids (cube, tetrahedron, octahedron, icosahedron and dodecahedron). There are ample variations with different color patterns and sunken sides. Dipyramids and Dimpled Dipyramids, unexplored before this in Origami, are also covered. There are a total of 64 models in the book. All the designs have an interesting look and a pleasing folding sequence and are based on unique mathematical equations.

**Shapes in Math, Science and Nature** - Catherine Sheldrick Ross  
2014-04-01

The three most basic shapes: squares, triangles and circles are all around us, from the natural world to the one we've engineered. Full of fascinating facts about these shapes and their 3D counterparts, *Shapes in Math, Science and Nature* introduces young readers to the basics of geometry

and reveals its applications at home, school and everywhere in between. Puzzles and activities add to the fun factor.

**Cut & Assemble 3-D Geometrical Shapes** - A. G. Smith 1986

The nature and structure of geometric solids have long fascinated mathematicians, scientists and philosophers, while artists and designers have found a source of inspiration in the intrinsic beauty and sense of order of such forms. Now this unique new addition to Dover's Cut & Assemble Series enables paper-construction buffs to experience the endless interest and challenge of 3-D shapes by constructing their own. Noted paper engineer and illustrator A.G. Smith has rendered 10 models in full color which demonstrate the design logic and structural integrity of geometric solids. Easy-to-follow step-by-step instructions and diagrams explain how to cut, glue and assemble each piece in this impressive collection. Beginners are advised to construct the simpler models (tetrahedron, octahedron and cube) before moving to such complex forms as the interpenetrating tetrahedrons and intricate variations of dodecahedrons. Science, math and puzzle enthusiasts 12 years and up will enjoy hours of creative entertainment as well as a fascinating close-up observation of the interrelationships of angle, line, form and volume in three-dimensional configurations. -- from back cover.

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*Let's Have Fun with Shapes* - Mike Askew 2021-07-15

Our world is made of shapes! Circles, squares, rectangles, and more—they make up everything around us. This colorful book provides students with games and activities through which to learn the principles of basic shapes and how to work with them. Detailed illustrations and instructions lead readers through each activity, and tips and questions encourage them to think more about shapes.

*First Grade Math* - Greg Sherman 2013-09-15

This book, with over 250 problems, covers the following topics: Capacity, Fractions, Money, Temperature, Time, Weight, Spatial Sense, Algebra and more! If you are home schooling (or if you are just trying to get extra

practice for your child), then you already know that math workbooks and curriculum can be expensive. Home School Brew is trying to change that! We have teamed with teachers and parents to create books for prices parents can afford. We believe education shouldn't be expensive. The problem portion of the book may also be purchased individually in "First Grade Math Problems."

*Origami Inspirations* - Meenakshi Mukerji 2010-08-18

This handsome book is aimed towards those with an intermediate skill level, but the origami basics included at the start of the book make it accessible to beginners. A number of beautiful models are offered, ranging from cubes to prisms to dodecahedra. As with the author's two previous books, *Origami Inspirations* provides step-by-step instructions and color distribution suggestions to create the more than 30 intricate designs presented. The book also includes a chapter featuring designs by origami artists from around the world, and these projects provide a happy complement to the author's own exciting inspirations in the rest of the book.

*More Origami With Explanations: Fun With Folding And Math* - Jeanine Meyer 2020-11-17

Find out *Origami with Explanations: Fun with Folding and Math* Origami, paper folding, originated hundreds of years ago in China and Japan, with

independent discovery across the world. Today people do origami, create new models, share their work, and discover mathematical principles. This book continues the approach of *Origami with Explanations*; but is independent, with basic instructions repeated. Carefully written instructions, using photos and diagrams, will turn you into a successful folder and stimulate your own creativity. The models in this book include action models, money folds, beautiful and useful containers, and modular origami. Mathematics topics touched on include improving estimates, tessellations, mathematical induction, flat-foldability, and fold-and-cut. The Explanations section provide insight into the origami and introduce or re-introduce you to basic and advanced subjects in mathematics.

**Learning and Teaching Early Math** - Douglas H. Clements 2020-12-30

The third edition of this significant and groundbreaking book summarizes current research into how young children learn mathematics and how best to develop foundational knowledge to realize more effective teaching.

Using straightforward, practical language, early math experts Douglas Clements and Julie Sarama show how learning trajectories help teachers understand children's level of mathematical understanding and lead to better teaching. By focusing on the inherent delight and curiosity behind young children's mathematical reasoning, learning trajectories ultimately make teaching more joyous: helping teachers understand the varying

levels of knowledge exhibited by individual students, it allows them to better meet the learning needs of all children. This thoroughly revised and contemporary third edition of *Learning and Teaching Early Math* remains the definitive, research-based resource to help teachers understand the learning trajectories of early mathematics and become confident, credible professionals. The new edition draws on numerous new research studies, offers expanded international examples, and includes updated illustrations throughout. This new edition is closely linked with *Learning and Teaching with Learning Trajectories*—[LT]2—an open-access, web-based tool for early childhood educators to learn about how children think and learn about mathematics. Head to [LearningTrajectories.org](https://LearningTrajectories.org) for ongoing updates, interactive games, and practical tools that support classroom learning.

**Mathematical Origami** - David Mitchell 2020

Origami is the art of paper folding without the use of either scissors or glue. Each of the beautiful and fundamental mathematical shapes described in this book is achieved by folding sheets of standard A4 paper. It is remarkable what can be done and David Mitchell gives clear step by step instructions for each. He has gathered together a most impressive collection which will amaze and interest mathematics teachers and other admirers of pure geometrical forms. This new second edition extends the selection massively and has been split into two volumes - see contents.



*Paper Puzzle Book, The: All You Need Is Paper!* - Garibi Ilan 2018-01-18  
ALL YOU NEED IS PAPER! All the puzzles inside are made out of paper – from simple teasers to extreme brain workouts! ORIGINAL DESIGNS Co-developed by a mathematician, an origami artist and a mechanical puzzle maker, this inventive book provides a unique and invaluable collection of a large, comprehensive and diverse variety of paper puzzles. And they only require a sheet of paper and perhaps a pair of scissors! EASY TO CHALLENGING There are 99 unique puzzles including paper strip puzzles, Möbius strips and flexagons, two-dimensional sheet folding, 'fold-and-cut' puzzles, 3D dissections and constructions, sequence folding puzzles, origami puzzles and even paper toys and magic. PROVIDES HOURS OF FUN Anyone of any age can find hours of enjoyment and challenge! LEARNING GEOMETRY, MATHEMATICS AND PROBLEM-SOLVING CHALLENGES CAN BE FUN! For students and teachers; parents and children; amateur and skilled mathematicians, and puzzle lovers. LEARN CONCEPTS AS YOU GO! Many of the puzzles are new and original, they complement the classic puzzles that are included and all of them come with a solution as well as a mathematical and geometrical explanation that can be easily understood by all. The layout of the book, with its extensive puzzles, solutions and detailed descriptions, make it a sure candidate as the paper puzzle 'bible' for enthusiasts and puzzle

lovers everywhere. Contents: Just Folding Origami Puzzles 3D Folding Puzzles Sequence Folding Strips of Paper Flexagons Fold and Cut Just Cutting Overlapping Paper Puzzles More Fun with Paper Readership: Puzzle and riddle lovers, and origami enthusiasts. Keywords: Puzzle; Paper; Recreational Mathematics; Geometry; Origami; Fold; Cut Review: Key Features: Many new and original puzzles A huge collection of paper puzzles and activities for all ages and levels Both educational and fun; highly challenging puzzles Presents many geometrical and mathematical principals in an easy to understand manner Possibly the only book in the market that contains such a large and diverse collection of paper puzzles  
How to Fold It - Joseph O'Rourke 2011-04-25  
What do proteins and pop-up cards have in common? How is opening a grocery bag different from opening a gift box? How can you cut out the letters for a whole word all at once with one straight scissors cut? How many ways are there to flatten a cube? With the help of 200 colour figures, author Joseph O'Rourke explains these fascinating folding problems starting from high school algebra and geometry and introducing more advanced concepts in tangible contexts as they arise. He shows how variations on these basic problems lead directly to the frontiers of current mathematical research and offers ten accessible unsolved problems for

the enterprising reader. Before tackling these, you can test your skills on fifty exercises with complete solutions. The book's website, <http://www.howtofoldit.org>, has dynamic animations of many of the foldings and downloadable templates for readers to fold or cut out.

Learning to Teach in the Primary School - Peter Hudson 2013-05-06

Provides a pathway into the Australian curriculum for primary teachers, including practical guidance across a range of key learning areas.

**Advances in Civil Engineering Materials** - Ar Meor Mohammad Fared Bin Meor Razali 2021-04-29

This book presents selected articles from the 4th International Conference on Architecture and Civil Engineering 2020, held in Kuala Lumpur, Malaysia. Written by leading researchers and industry professionals, the papers highlight recent advances and address the current issues in the fields of civil engineering and architecture.

*Bioinformatics Research and Development* - Mourad Elloumi 2008-08-31

This volume contains the papers which were selected for presentation at the second Bioinformatics Research and Development (BIRD) conference held in Vienna, Austria during July 7–9, 2008. BIRD covers a wide range of topics related to bioinformatics. This year sequence analysis and alignment, pathways, networks, systems biology, protein and RNA structure and function, gene expression/regulation and microarrays,

databases and data integration, machine learning and data analysis were the subjects of main interest. The decisions of the Program Committee are based on the recommendations of at least three, up to five, reviews for each paper. As a result, 30 of the 61 submitted contributions could be accepted for the conference. We were happy to have three invited talks presented by experienced researchers providing visitors with a good overview but also some very important insights into the fascinating domain of bioinformatics. Abstracts and more information on these talks are provided in the conference program as well as at the conference site. In the second part of this volume the selected contributions of the two workshops which were held in parallel to the main conference are presented: Workshop on Dynamical Aspects of Perturbation, Intervention and Transition in Biological Systems – PETRIN 2008 and Workshop on Algorithms in Molecular Biology – ALBIO 2008. Poster presentations of the BIRD conference are in the companion proceedings published by the Trauner Verlag, Linz.

Math Makes Sense - Rachel Griffiths 1994

**Cut and Fold 3D Shapes for Kids** - Modpub Publishing 2020-05-04  
coloring, Cut and Fold 3D shapes for kids Learn 2 dimensional and 3 dimensional shapes through fun shape characters. See examples of

everyday objects that reflect the shapes. The ideal learning book for toddlers, children in preschool, kindergarten or a higher grade, for ages 2 through to 10 This fun and educational children's shapes picture book helps teach kids 2 and 3 dimensional shapes through fun shape characters and everyday objects. Find the suggested shape on the first page and then turn the page to reveal the answer to the picture puzzle.

**Visual-Spatial Thinking for Advanced Learners, Grades 3–5** - Emily Hollett  
2022-07-29

Visual-Spatial Thinking for Advanced Learners, Grades 3–5 will teach students how to perceive and represent visual information, and to mentally manipulate objects within space. Visual-spatial thinking is a skill which helps students develop depth, complexity, and abstraction in thinking and inquiry. Working through the lessons and handouts in this book, students will develop spatial language, learn to visualize and mentally manipulate visual information, look at objects from varying perspectives, explore dimension, and seek structure in organizing visual information. This curriculum provides cohesive, focused, scaffolded lessons to teach each targeted area of competency followed by authentic application activities for students to then apply their newly developed skill set. This book can be used as a stand-alone gifted curriculum or as part of an integrated curriculum. Each lesson ties in both reading and metacognitive skills,

making it easy for teachers to incorporate into a variety of contexts.

**Twists, Tilings, and Tessellations** - Robert J. Lang 2017-12-22

Twists, Tilings, and Tessellation describes the underlying principles and mathematics of the broad and exciting field of abstract and mathematical origami, most notably the field of origami tessellations. It contains folding instructions, underlying principles, mathematical concepts, and many beautiful photos of the latest work in this fast-expanding field.

**Learning Shapes** - Random House (Firm) 1999-07-20

Children explore the concept of shapes, including squares, circles, rectangles, and diamonds.

**Project Origami** - Thomas Hull 2012-12-21

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.

Geometric Folding Algorithms - Erik D. Demaine 2007-07-16

Did you know that any straight-line drawing on paper can be folded so that the complete drawing can be cut out with one straight scissors cut? That there is a planar linkage that can trace out any algebraic curve, or even 'sign your name'? Or that a 'Latin cross' unfolding of a cube can be refolded to 23 different convex polyhedra? Over the past decade, there has been a surge of interest in such problems, with applications ranging from robotics to protein folding. With an emphasis on algorithmic or computational aspects, this treatment gives hundreds of results and over

60 unsolved 'open problems' to inspire further research. The authors cover one-dimensional (1D) objects (linkages), 2D objects (paper), and 3D objects (polyhedra). Aimed at advanced undergraduate and graduate students in mathematics or computer science, this lavishly illustrated book will fascinate a broad audience, from school students to researchers.

**There's Math in My Origami!** - Fumiaki Shingu 2021-06-29

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!