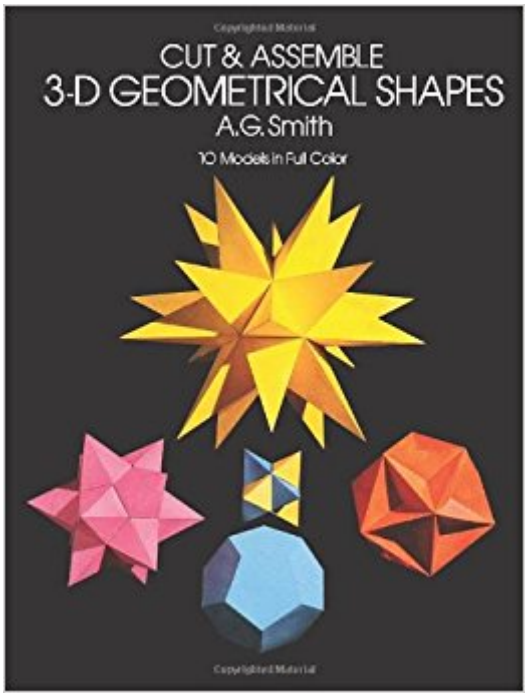
Cut & Assemble 3-D Geometrical Shapes: 10 Models In Full Color (Models & Toys)



Synopsis

Complete step-by-step instructions and diagrams for assembling 10 full-color geometric solids â " tetrahedron, octahedron, cube, trapezohedron, icosahedron, simple and intricate variations of dodecahedrons. Fun and educational. 16 plates of assembly diagrams.

Book Information

Series: Models & Toys

Paperback: 32 pages

Publisher: Dover Publications; 81st edition edition (June 1, 1986)

Language: English

ISBN-10: 0486250938

ISBN-13: 978-0486250939

Product Dimensions: 12 x 9 x 0.2 inches

Shipping Weight: 10.4 ounces

Average Customer Review: 4.2 out of 5 stars 7 customer reviews

Best Sellers Rank: #794,953 in Books (See Top 100 in Books) #102 inÂ Books > Children's Books > Education & Reference > Math > Geometry #369 inÂ Books > Crafts, Hobbies & Home > Crafts & Hobbies > Toys & Models > Models #2197 inÂ Books > Children's Books > Activities, Crafts & Games > Games

Age Range: 8 and up

Grade Level: 3 and up

Customer Reviews

Gift for a grandson. He delights in all things mathematical.

slow careful work needed to get a good shape. Being hollow, these shapes are easily crushable, even from the minimal pressure needed to hold glued surfaces together while drying.

My kids loved building these shapes and learning the names of each shape. It has been helpful to have fun with geometry.

This book is good for the elementary teacher who wants to teach kids geometry and shape. There are several shapes that kids can do and will keep them interested.

The kit contains colored paper models for the five Platonic solids (the tetrahedron, cube, octahedron, icosahedron, and dodecahedron) and three of the four Kepler-Poinsot star polyhedra (the small stellated dodecahedron, the great stellated dodecahedron, and the great dodecahedron). Only Poinsot's great icosahedron is missing from having a full set of the nine "regular" polyhedra. This is unfortunate but perhaps understandable since the last has 180 sharply folded faces as I figure it. Drat! I'll have to make my own. The kit also includes Kepler's "stella octangula" which is a compound of two tetrahedra - it is it's own twin - and a very pleasing figure.The models went together with only a little patience and no particular trouble. Cut out the pages; mark the vertices of the parts with a pin (I used a disecting needle); turn the paper over and use a pencil and metal straight-edge to score the fold lines between the pin-hole vertices; turn the paper over color-side up and use an Exacto knife and the straight-edge to carefully cut the part out; turn it over again and fold the edges with the help of the straight edge; glue the tabs in the indicated sequence with a quick setting paper glue.These figures have fascinated artists (e.g. Da Vinci, Escher), mathematicians (e.g Euclid, Poinsit, Euler and many more) and scientists(e.g. Kepler and many more including me) ever since Plato's Timaeus and probably Pythagoras before him. Some non-technical books that amplify the subject include Shapes, Space, and Symmetry by Alan Holden (Dover, 1971), Platonic & Archimedean Solids by Daud Sutton (Walker and Co., 2002), and maybe Polyhedron Models by Magnus Wenninger (Cambridge University Press, 1971).

I love boxes of almost any kind, and enjoy origami, the art of paper folding. This book has a variety of shapes that might easily be used for gift boxes, others for party or Christmas decorations. Some are patently too elaborate for the beginner, and some are probably too time consuming for anyone but the dedicated connaiseur, but many would be doable by the school aged child with some adult guidence. It would be a wonderful way of teaching geometric forms and spacial relationships to anyone from grade school to high school.

This book provides a teacher a wonderful way to engage students in learning both geometry and art at the sametime. The kids love it in my eighth grade art classes.

Shapes, Shapes, Shapes Sneaky Green Uses for Everyday Things: How to Craft Eco-Garments and Sneaky Snack Kits, Create Green Cleaners, Remake Paper into Flying Toys, Assemble ... a Robot Recycle Bin with Everyday Things British Diecast Model Toys Catalogue: Dinky Toys and Matchbox Toys v. 1 Toys & Prices: The World's Best Toys Price Guide (Toys and Prices) The Full Box: Gift Set: Full House, Full Tilt, Full Speed, and Full Blast (Full Series) Drawing: Drawing and Sketching,Doodling,Shapes,Patterns,Pictures and Zen Doodle (drawing, zentangle, drawing patterns, drawing shapes, how to draw, doodle, creativity) Shapes: An Adult Coloring Book: Over 40 Fun Stress Relief Shapes and Geometric Patterns for Your Inner Artist Specialty Cut Flowers: The Production of Annuals, Perennials, Bulbs, and Woody Plants for Fresh and Dried Cut Flowers Cut by Cut: Editing Your Film or Video Measure Twice, Cut Once: Simple Steps to Measure, Scale, Draw and Make the Perfect Cut-Every Time. (Popular Woodworking) The Cut Flower Patch: Grow your own cut flowers all year round Cards That Wow with Sizzix: Techniques and Ideas for Using Die-Cutting and Embossing Machines - Creative Ways to Cut, Fold, and Embellish Your Handmade Greeting Cards (A Cut Above) 2018 Avengers Assemble Wall Calendar (Day Dream) Revengers Assemble! (Steve's Comic Adventures Book 11) Cool Doughs, Putties, Slimes, & Goops: Crafting Creative Toys & Amazing Games (Cool Toys & Games) Collectors Guide to TV Toys and Memorabilia (Collector's Guide to TV Toys & Memorabilia)