

Toothpick Bridge

In groups of 3-4 people, you will need to create a toothpick bridge. Below are the required materials needed for this project. As well as how to start points whilst building your bridge. Examples can be found at the bottom of the page, but feel free to be creative with your bridge design.

Required Materials:

- 1 box of 20000 Toothpicks
- 1 bottle of White Glue

Measurement of Success:

Your bridge must contain the following

- 4" tall x 10" long
- 4 Right Angles
- 4 Acute Angles
- 4 Obtuse Angles
- 2 Sets of Parallel Lines
- 2 Sets of Perpendicular Lines
- Can hold 1 pound
- Must be 1 inch tall

...to be flat from underneath through the entire length of the bridge



Bridge Examples:



Pratt



Howe



Warren



Cantilever



Warren "A" Truss



Parker



Gambel



Double Intersection Pratt



Baltimore



Pennsylvania



K-Truss



Warren



Warren (with Verticals)



Double Intersection Warren



Lattice

Toothpick Bridge Project Manual

Michael Rajnik



Toothpick Bridge Project Manual:

Restructuring the English Classroom James L. Collins, 1992 Multiple Intelligences in the Elementary Classroom Susan Baum, Julie Viens, Barbara Slatin, 2005-08-26 This book will help teachers design effective curriculum for their students with diverse learning abilities The authors have created a guided process to apply MI theory to the elementary school classroom The five pathways or approaches examined Exploration Bridging Understanding Authentic Problems and Talent Development represent the ways in which MI can be implemented and nurtured across the elementary grades The Pathways Model promotes and supports the development of a well grounded understanding of MI theory to inform goal setting and planning for using multiple intelligences theory in the classroom Each pathway addresses a different set of goals and provides appropriate guidelines and examples

Who's in Charge? Susan Ohanian, 1994 Why teachers are so secretive even protective about the conditions in which they work is top on veteran teacher Susan Ohanian's list of concerns There is nothing secretive about Ohanian This collection of her writings many of which were gleaned from leading publications such as Phi Delta Kappan and USA Today attests to that If you ask for permission to speak up she says you are doomed But if you write about your classroom about the texts and traditions about the administrators who annoy you and the texts that block you your public words will provide a protective shield Based on Ohanian's twenty years as classroom teacher consultant journalist and observer of the education scene in the U S the essays will anger confirm delight and inspire Just about any teacher regardless of grade level will find familiar the scenarios contretemps ironies and kids Ohanian details Visit www.susanohanian.org Visit Susan Ohanian online for a wealth of information on education issues and to learn more about her You'll find commentary cartoons letters resources quotes and a word of the day offering children a provocative way to increase their vocabulary

8th Grade Technology Ask a Tech Teacher, 2020-08-02 Ninth in a series designed to teach technology by integrating it into classroom inquiry The choice of hundreds of school districts private schools and homeschoolers around the world this nine volume suite is the all in one solution to running an effective efficient and fun technology program for kindergarten eighth grade each grade level textbook sold separately whether you're the lab specialist IT coordinator or classroom teacher The 32 week technology curriculum is designed with the unique needs of middle school technology IT classes in mind Textbook includes 229 images 21 assessments 19 articles Grade 6-8 wide ranging Scope and Sequence Grade 6-8 technology curriculum map 32 weeks of lessons taught using the flipped classroom approach monthly homework 3rd-8th only posters ready to print and hang on your walls Each lesson is aligned with both Common Core State Standards and National Educational Technology Standards and includes Common Core Standards ISTE Standards essential question big idea materials required domain specific vocabulary problem solving for lesson time required to complete teacher preparation required steps to accomplish goals assessment strategies class warmups class exit tickets how to extend learning additional resources homework where relevant examples grading rubrics emphasis on comprehension problem solving critical thinking

preparing students for career and college focus on transfer of knowledge and blended learning collaboration and sharing Learning is organized into units that are easily adapted to the shorter class periods of Middle School They include Coding Programming Differentiated Learning Digital Citizenship Digital Tools Engineering and Design Internet Search Research Keyboarding Learn Through Service Programming with Alice Problem Solving Robotics Search Research SketchUp Spreadsheets Gradebooks and Budgets Visual Learning Web Communication Tools MS Word Certification ENC Focus ,2000 **Mathematics & Science in the Real World** ,2000 *Power Carving Manual, Updated and Expanded Second Edition* David Hamilton,Wanda Marsh,2021-01-02 The professional advice and the sheer beauty of these projects make this title a must have reference for every power carver Improved performance versatile attachments and lower prices have placed power tools within the reach of every woodworker Celebrating 20 years of power carving wizardry this big book presents 22 all time favorite step by step projects and patterns from Woodcarving Illustrated the leading how to magazine for carving enthusiasts If you ve been thinking about trying your hand at power carving or are looking to expand your power carving skills this powerhouse collection is exactly what you need It features a stunning gallery of work and a complete buyer s guide to exciting new tools from Dremel Foredom and other manufacturers Covering everything from the basics of safety to the strategy for texturing feathers *Power Carving Manual Second Edition* offers expert information insight and inspiration from today s top power carvers including Frank Russell Jack Kochan David Sabol Lori Corbett Chuck Solomon and Dave Hamilton

Building Toothpick Bridges Jeanne Pollard,1985 Teaches students how to build toothpick bridges manage a budget and order the materials necessary to complete their projects *Winds of Change* ,1993 *The Dental Cosmos* J. D. White,John Hugh McQuillen,George Jacob Ziegler,James William White,Edward Cameron Kirk,Lovick Pierce Anthony,1930

Field & Stream ,1973-02 FIELD STREAM America s largest outdoor sports magazine celebrates the outdoor experience with great stories compelling photography and sound advice while honoring the traditions hunters and fishermen have passed down for generations **Annual Report** Synthesis Coalition,1992 **Theatre Organ Bombarde** ,1969 **The United States Army and Navy Journal and Gazette of the Regular and Volunteer Forces** ,1900 **Temple Dental Review** ,1963 Vol 13 no 3 Jan 1943 includes the Garretsonian v 34 no 3 Jan 1943 **Yankee** ,1981-07 Children's Books in Print ,2007 ,2006 73 Amateur Radio Today ,1995 *AB Bookman's Weekly* ,1986 **Hobbies** ,1966

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