

Bridges And Tunnels Investigate Feats Of Engineering With 25 Projects Build It Yourself

Maxine Anderson

Bridges And Tunnels Investigate Feats Of Engineering With 25 Projects Build It Yourself:

Bridges and Tunnels Donna Latham, 2012-06-01 Bridges and tunnels are lifelines People have tackled seemingly insurmountable obstacles including vast canyons and mountain ranges to design and construct these amazing passageways Bridges and Tunnels Investigate Feats of Engineering invites children ages 9 and up to explore the innovation and physical science behind structures our world depends on Trivia and fun facts illustrate engineering ingenuity and achievements Activities and projects encourage children to learn about the engineering process and to embrace trial and error Build It, Make It, Do It, Play It! Catharine Bomhold, Terri Elder, 2014-06-30 A valuable one stop guide to collection development and finding ideal subject specific activities and projects for children and teens For busy librarians and educators finding instructions for projects activities sports and games that children and teens will find interesting is a constant challenge This guide is a time saving one stop resource for locating this type of information one that also serves as a valuable collection development tool that identifies the best among thousands of choices and can be used for program planning reference and readers advisory and curriculum support Build It Make It Do It Play It identifies hundreds of books that provide step by step instructions for creating arts and crafts building objects finding ways to help the disadvantaged or engaging in other activities ranging from gardening to playing games and sports Organized by broad subject areas arts and crafts recreation and sports including indoor activities and games and so forth the entries are further logically organized by specific subject Success with STEM Sue Howarth, Linda Scott, 2014-11-13 Success with STEM is an ensuring guick and easy use essential resource packed with advice and ideas to support and enthuse all those involved in the planning and delivery of STEM in the secondary school It offers guidance on current issues and priority areas to help you make informed judgements about your own practice and argue for further support for your subject in school It explains current initiatives to enhance STEM teaching and offers a wide range of practical activities to support exciting teaching and learning in and beyond the classroom Illustrated with examples of successful projects in real schools this friendly inspiring book explores Innovative teaching ideas to make lessons buzz Activities for successful practical work Sourcing additional funding Finding and making the most of the best resources STEM outside the classroom Setting up and enhancing your own STEM club Getting involved in STEM competitions fairs and festivals Promoting STEM careers and tackling stereotypes Health safety and legal issues Examples of international projects An wide ranging list of project and activity titles Enriched by the authors extensive experience and work with schools Success with STEM is a rich compendium for all those who want to develop outstanding lessons and infuse a life long interest in STEM learning in their students The advice and guidance will be invaluable for all teachers subject leaders trainee teachers and NQTs Geology of the Eastern Coast Kathleen Brown, Cynthia Light Brown, 2012-04-01 Taking a unique approach to a fascinating region of the United States this activity guide looks at the underlying processes that have shaped the Eastern Coast Beginning with the connection between geology and geography the

chapters move into a discussion of plate tectonics and landforms such as the Appalachian Mountains Piedmont area and Coastal Plains The aspects of climate rivers and lakes and the ecosystems of the temperate forest and wetlands including bayous and the Everglades are covered in detail Engaging sidebars explain why the New River is one of the oldest in the world how once endangered alligators are now thriving how hurricanes form and more Combining fun facts with hands on experiments this handbook features projects such as building folded mountains creating dissolving corals and making an eye Great Civil War Projects Maxine Anderson, 2012-06-01 From periscopes to homemade paper uniforms to telegraphs Great Civil War Projects You Can Build Yourself explores the Civil War era through hands on building projects and activities using common household and craft store items Detailed step by step instructions diagrams and templates for creating 25 Civil War projects combined with historical background facts and anecdotes and biographies and trivia give kids a hands on way to experience the fascinating history of one of the most important eras in American history Grouping For?, Grades 3-8 Julie Wright, Barry Hoonan, 2018-07-26 Intermediate grade readers don't need to be guided as much as they need to be engaged and authors Julie Wright and Barry Hoonan have solutions for doing just that using small groups You ll get practical tools classroom examples and actionable steps essential for starting sustaining and mastering the management of small groups This book explains the five teacher moves that work together to support students reading independence through small group learning kidwatching pivoting assessing curating and planning and provides examples to guide you and your students toward success This resource will empower you with tools to ensure that readers are doing the reading thinking and doing not you Boost Your STEAM Program with Great Literature and Activities Liz Knowles, Martha Smith, 2018-06-01 You ve created a STEAM program in your library but how do you work literacy into the curriculum With this collection of resource recommendations direction for program development and activities you ll have students reading proficiently in no time Many schools and libraries are implementing STEAM programs in the school library makerspace to promote problem solving by allowing students to create their own solutions to a problem through trial and error In order to enhance literacy development in the STEAM program however they need resources for integrating literature into the curriculum In this collection of resources for doing just that veteran education professionals and practiced coauthors Liz Knowles and Martha Smith bring readers over eight hundred recommended and annotated books and web resources selected based on research on successfully integrating STEAM and literacy programs and organized by the five STEAM areas Titles are complemented by discussion questions and problem solving activities that will aid educators in both adding and using the best literature to their STEAM programs for encouraging learning In addition to promoting literacy these resources will help to develop creativity lateral thinking skills and confidence in students **Teaching STEM and Common Core with** Mentor Texts Anastasia Suen, Shirley L. Duke, 2013-12-02 Librarians can use this book to become leaders in their schools collaborating with teachers to keep them abreast of resources that will facilitate the inclusion of STEM in the curriculum

Teaching STEM and Common Core with Mentor Text explains the basics of STEM Science Technology Engineering and Mathematics and shows how librarians can become a key component in STEM education guiding teachers and sparking interest though the books and technology inherent in their curriculum The volume offers 20 mentor texts plus in depth collaborative lesson plans linked to the Common Core Standards for K 5 librarians There are additional lessons for classroom teachers as well as activities that can easily be done in the library or classroom Each lesson includes mentor text information an overview of the lesson step by step lesson plans assessment options and extension activities By implementing these lessons in the library librarians will be able to cover multiple Common Core State Standards and science standards and at the same time establish the library as a resource for teaching STEM subjects **SKYSCRAPERS** Donna Latham, 2014-01-07 Over centuries and across cultures people have defied gravity in a quest to build the tallest grandest structures imaginable Skyscrapers Investigate Feats of Engineering with 25 Projects invites children ages 9 and up to explore the innovation and physical science behind these towering structures Trivia and fun facts illustrate engineering ingenuity and achievements from the ancient pyramids to the Empire State Building Readers will develop an understanding of how our modern sophisticated building techniques and materials evolved over time Activities and projects encourage children to explore the engineering design process They will engage in hands on explorations of wind test Newton's laws of motion and experiment with the strength of different shapes In the process they will learn about gravity inertia oscillation and static electricity Using various materials and engaging in trial and error readers will construct their own towers and skyscrapers Skyscrapers meets common core state standards in language arts for reading informational text and literary nonfiction and is aligned with Next Generation Science Standards Guided Reading Levels and Lexile measurements indicate grade level and text complexity

Bridges and Tunnels Donna Latham,2012 Explores the innovation and physical science behind bridges and tunnels featuring illustrated step by step instructions for twenty five projects designed to help students learn about the engineering process

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