

Activity #19 (Part 1 of 1)

Websites for Bridge Lessons

<http://www.yesmag.ca/projects/bridge.html>

A group of triangles can be joined together to form a truss. There are many different truss designs, including the Pratt, Whipple, and Fink (sounds like a law firm). Although truss bridges are not as good for spanning great distances as other bridge designs, they are extremely strong. Steel trusses, for example, are often used in railroad bridges. To build your own truss bridge, you need a steady hand and a bit of patience. But if you stick with it, you will have one terrific truss bridge.

<http://www.pbs.org/wqbh/buildingbig/bridge/challenge/index.html>

The city of Craggy Rock needs your help to build four new bridges. This interactive site teaches about bridges and lets you make choices as you build.

<http://www.pbs.org/wqbh/amex/eads/>

Meet James Eads, one of America's greatest builders, who built the world's first steel bridge, at St. Louis, Missouri, in the 1870s from American Experience Online.

http://www.swe.org/iac/lp/asphalt_01.html

When you make these chocolate no-bake cookies you also will learn how asphalt is made and used in paving roads. There is a terrific gallery of photos with this lesson.

http://www.swe.org/iac/lp/bridge_01b.html

Can you support the weight of a book on top of a flimsy piece of paper? In this activity you will work in a team and build a portable structure out of paper and tape that will support the weight of a book. You will learn that you can create new objects from everyday ordinary materials.

<http://www.khake.com/page82.html>

Lesson plans and activities for: Carpentry, Construction, Electricity, HVACR, Plumbing, Masonry, Painting and Repair, Engineering, Welding and Manufacturing.

www.goldengate.org

A history of the Golden Gate Bridge and a virtual stroll across it.