

Engineering 101

Outreach Kits

Looking for a way to explain engineering?

Have you been invited to talk about engineering at your child's school? Are your Scouts trying to earn an engineering-related merit badge? Do you volunteer at an after-school or summer program?

If you have any reason to share engineering with students between first and eighth grades (or maybe even older), the Nebraska Section can help!

Outreach Kits Available – Check One Out Today!

Outreach Activity Kits

Three kits are prepared to appeal to a variety of age groups, though activities can sometimes be fun for all ages. Each kit includes leader guides, handouts, materials to complete the activities, and certificates for the kids – all packaged in an easy-to-carry bin!

Kit #1 – Zoom Into Engineering

(Grades 1-6)

Flinker, Gumdrop Dome, and Paper Tower

Kit #2 – Building Big

(Grades 5-8)

Hands on Glossary, Straw Shapes, Paper Bridge, and Suspension Bridge

Kit #3 – Mixed Activities

(Mixed Ages)

Paper Tower, Straw Shapes, Hang Time, and Blow It Away

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Building Big Video Series

(Grades 4+) This DVD set includes five hour-long episodes (Bridges, Dams, Domes, Skyscrapers, Tunnels) from the highly acclaimed PBS special *Building Big*. The series explores the creators and builders of amazing structures while revealing both triumph and disaster.

Bridge Kit

To learn about structures, students become the builders for a six foot long bridge that will support up to 150 pounds. Yes, that means that the builders will have an opportunity to climb through the truss when it's complete.

How Do I Borrow Outreach Activities?

- ▶ Contact the Section (contact info on the left).
- ▶ Let us know which materials you need and when you would like them.
- ▶ Explore the kit on your own and then have fun sharing it with others.
- ▶ Return the kit and let us know about your experiences.

