

## How to Borrow Materials:

If your classroom, Scout Troop, after school program, or church group would like to learn about Engineering:

- Contact the Nebraska Section (contact info inside)
- Let us know which materials you'd like to borrow and when. We'll match you with an engineer. (See inside for kit details.)
- Have fun learning about engineering!
- Return the kit and let us know about your experience.



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Learn about  
Engineering with  
Outreach Activity Kits

## Introduction to Engineering

Easy-to-use activities for elementary and middle school students... pre-assembled and ready for you to borrow. We even supply an engineer!

[www.neasce.org](http://www.neasce.org)

**Outreach Materials Available  
for Checkout from the  
Nebraska Section, American  
Society of Civil Engineers**

**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**

This kit is designed for kids in grades 1 to 6 (no scissors involved, but one activity uses water). Activities are: Flinker, Gumdrop Dome, and Paper Tower.

**Kit #2 – Building Big**

This kit is designed for kids in grades 5 to 8, and begins to explore “why?” Activities are: Hands on Glossary, Straw Shapes, Paper Bridge, and Suspension Bridge.

**Kit #3 – Mixed Activities**

This kit is for a mixed group, combining *Zoom*, *Building Big*, and *Fetch* activities. Activities are: Paper Tower, Straw Shapes, Hang Time, and Blow It Away.



**Bridge Kit**

This kit, which centers on the construction of an actual bridge, requires engineer supervision! As students discuss strong shapes and learn about structures, they 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.



**Building Big Video Series**

This DVD set includes five hour-long episodes from the highly acclaimed PBS special *Building Big*. The series would best be appreciated by anyone from Fourth Grade on up. The series explores the creators and builders of amazing structures while revealing both triumph and disaster. Each episode focuses on one of five types of structures: Bridges, Dams, Domes, Skyscrapers, and Tunnels.

Founded in 1852, the American Society of Civil Engineers (ASCE) represents more than 140,000 members of the civil engineering profession worldwide and is America's oldest national engineering society.

For more information, visit:  
[www.asce.org](http://www.asce.org).



For more information or to borrow a kit, contact:

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