



EXPLORATIONS IN ENGINEERING



IN THIS PROJECT YOU GET TO:

Research: Work individually to complete 2-3 pgs. of research about buildings & bridges.
- Practice and perform a Structure Story.

Produce: Work with a partner to build a structure from the list below.
- Create a time-management plan.
- Keep a problem log.

WITH A PARTNER, CHOOSE TO BUILD ONE OF THE FOLLOWING:

BRIDGE OBJECTIVE

To make a bridge which will hold the most weight possible.

- must span 1.5 feet
- we will test it to see how much weight it can hold (mid-point)
- must be made mostly of drinking straws

TOWER OBJECTIVE

To make the tallest tower possible without falling, while withstanding earthquake and wind forces.

- must fit on 1.5 ft. X 1.5 ft. earthquake platform
- must be a minimum of 12 inches tall
- cannot be a solid structure
- we will test it to see how much wind it can take
- we will test it on the earthquake platform

STRUCTURE OBJECTIVE

To make a unique large-crowd venue for a metropolitan space which demonstrates the theme of "Beauty & Strength".

- must be unique (not a model of something that exists)
- must fit theme of "Beauty and Strength"
- purpose: large crowd venue

