



# CIVIL ENGINEERING | BRIDGE BUILDING

## Description

SKILL LEVEL: ADVANCED

**In this engineering challenge, you will be using principles of civil engineering to make your very own bridge!** This activity will work great when done either solo or in small groups. The materials listed below are just suggestions, so feel free to use any combination of them or add your own. This craft is all about student creativity, so encourage them to experiment and use their imagination in their designs!

**Test their bridges!** After students have finished building, you can test their designs by placing pennies on their bridges to see which can hold the most weight.



### Possible Materials

- Tape
- Construction paper
- Plastic straws
- Popsicle sticks
- Toilet paper rolls



### Directions

1. Use the available materials to assemble different bridge designs
2. The example designs in the video can be used for inspiration!
3. Suspend the bridge between two tall objects (like stacks of books)
4. See which bridge can hold the heaviest weight



[Video Instructions](#)