CALIFORNIA SCIENCE & ENGINEERING FAIR
2018 PROJECT SUMMARY

Name(s)
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Project Number
38272

Project Title
Which Bridge Can Hold More Weight?

Abstract

Objectives/Goals
My goal was to see which bridge design could hold more weight.

Methods/Materials
Cedar strips, wood glue, basic red wire.
These items were used in the construction of both bridges.

Results
After I tested both bridges with weights, I concluded that my hypothesis was correct.

Conclusions/Discussion
The suspension bridge held more weight, suffering only a hair line crack at the main suppport. The arch bridge received major damage at less weight. I concluded that a suspension bridge would be a better design for safety.

Summary Statement
I designed and built two bridges to be tested for maximum weight.

Help Received
I designed, built and tested my bridges with minimal help from my father.