

## CALIFORNIA STATE SCIENCE FAIR 2007 PROJECT SUMMARY

Name(s)	Project Number
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	S0214
Project Title	
Truss Bridges	
Abstract	
Objectives/Goals Abstract	
The project is find out the relationship between difference factor between different types of truss bridge,	
for example, the longevity of a covered truss bridge and to the truss itself, including the frequency of	
traffics, loading, maintenance, extent of protection, the different length of each truss, and the difference of	
the materials. By building model truss bridge with different length and different structure, after finish	
building the truss bridges, test them on the structure tester with the interface to the computer, finally compare the result.	
Methods/Materials	
making model out of balsa wood and test the model bridges by using the struture tester di-2000.	
Results	
the results in the span vs. maxium load has a decreasing rate when the span is increasing. And the H/S	
ratio vs. maxium load has an increasing ratio when the H/S ratio is increasing.	
Conclusions/Discussion	
H/S ratio increase because of the span increasing, that's made the Heigh become a less factor of the	
problem, so most likely the when the span increase, the maxium load will decrease.	
Summary Statement	
This project is about how the span will affect the truss bridges itself.	
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Help Received	

Used lab equpment at Ribet Academy.