



**CALIFORNIA STATE SCIENCE FAIR  
2006 PROJECT SUMMARY**

<b>Name(s)</b> Omar Espinoza	<b>Project Number</b> <b>J1809</b>
<b>Project Title</b> Demolishing Bridges	
<b>Abstract</b> <b>Objectives/Goals</b> The objective is to see whether the Pratt truss will hold more weight than the Warren design. <b>Methods/Materials</b> I used 3/16 wooden dowels, cut them into lengths of 2 inches, 27/8 inches and 4 inches. I also used Elmer's carpenter's wood glue and used pliers to cut the wood. Once I was done I had a three dimensional bridge with two sides braced together. <b>Results</b> My results were simple. I only did one test. The Pratt design held 65 pounds, the Warren design held 33 pounds. <b>Conclusions/Discussion</b> I studied two types of bridges, the Warren design and the Pratt design. I built both of them to see how much weight they could hold. I put the weight on the middle of the trusses. The Pratt design held more weight than the Warren design.	
<b>Summary Statement</b> I tested the Pratt and the Warren design trusses to see which would hold the most weight.	
<b>Help Received</b> Santiago Espinoza Jr.	