Student Name: Ellie Corliss
Prairie Vista Elementary School

Science Project Quad Chart	
Q1: Research Question ● When Buildings Fight Back!	**Q3: Data Analysis & Results** ● Slowest burn average: dowel and popsicle stick with baking soda (10:21). Fastest burn average: dowel only and untreated (6:43). See board for all data and results.
Q2: Methodology ● Build houses with dowel rods, popsicle sticks, and wood glue. ● Apply non-toxic flame retaradants baking soda and borax solution. ● Let houses dry. ● Test burn time by placing a fire stick and lighting it. ● Record the amount of time it takes until the roof starts to fall.	**Q4: Interpretation & Conclusions** ● The baking soda treated and reinforced structure burned the slowest. This shows that both baking soda and the popsicle reinforced house design improved fire resistance. This also means my hypothesis is partially wrong. The best combination was a baking soda with a reinforced structure, not the combination of Borax and the reinforced structure.