

Name(s)	Project Number
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Project Title	$\langle \rangle$
Which Will Withstand the Weight?	
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Abstract	
For my project. I tested the problem: What shape of pole can withstand the	outweight? I predicted the
circular pole would do the best (hold the most weight without collapsing), while the most weight without collapsing).	ile the star shaped pole will
do the worst (hold the least weight).	
Methods/Materials	triangular and 5 point
star). A plastic disc of nominal weight was placed ator the upright pole. Weight	hare, mangular, and 5-point
were placed atop the disc until each structure collapsed (failed) Recordings	f weight used were made
and each pole shape underwent 2 additional trials (3 total).	-
Results In all three trials, the circular structure withstood the most weight. The triangu	ular pole withstood the
second most amount of weight. The square was third and the 5-point was fared	d the worst.
Conclusions/Discussion	
I concluded that it is better to use circular poles (or a pole with feither corners)	. The more corners a pole
\sim \checkmark	
Summary Statement	
My project is the testing of different shaped pole structures in order determine	which shape withstands the
most weight.	which shape whilstands the
Help Received	
Sister instructed on graphics; Mother helped construct board; Father advised on engineering aspects	
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