

CALIFORNIA STATE SCIENCE FAIR 2008 PROJECT SUMMARY

Name(s)	Project Number
Ayla L. Nelson	J0120
Project Title	
Shapes of Parachutes and Descent Rates	
Abstract	
Objectives/Goals What I wanted to find out was, if keeping the surface area constant, how does t affect the descent rate of a given load?	he shape of a parachute
Methods/Materials	the same surface area yet
To find this out I decided to create three parachutes. Each of the parachutes has the shape of each parachute differs. Parachute one is a square. Parachute two is three is a rectangle like the second parachute with the exception that it has a sh length then the second parachute does.	a rectangle. Parachute
When the parachutes were created, I made a model rocket that would get the pa substantial distance so that I would have more time to collect data than if I wer a ten foot roof.	arachutes up in the sky a e to drop the parachutes off
The rocket provided another plus; I could place an altimeter in the payload of t the height and time of the parachutes# descents. The altimeter being an electric the data was more accurate.	
I launched each parachute three times each. That way I could collect more sam more accurate average decent rate for each parachute.	ples, so I could have a
Results I found that, as I hypothesized, the more rectangular, and less square, a given p descent rate.	arachute is, the faster the
Summary Statement	
The purpose of my project was to find out how changing the shape of a paracher area constant, changes the descent rate of a given load.	ute, yet keeping the surface
Help Received	
Father ordered equipment; supervised rocketry activities; drove to the lake; hel gluing the board.	ped with Excel; assisted in