Rocket Data Sheet and Launch Record

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Rocket Description		Recovery Information		Altimeter Two Data		
Owner:	Cooper and Addison		Occurred	Apogee Altitude:	423 Ft	
Rocket Name:	Nuclear Destruction	" During Ascent	" At Apogee	Top Speed:	112 mph	
Type:	Big Sharky	" After Apogee	" During Descent	Burn Time (burn):	1.9 s	
Length: (inches)	22.625	" Ejection Failure		Peak Acc (Pacc):	8.3 g	
Diameter: (inches)	1.645	Parachute I	<u>Deployment</u>	Avg Acc (Aacc):	2.6 g	
Fins:	Laser-Cut 1/8 in Balsa	" Full	" Partial	Coast Apogee (C2AP):	3.75	
Listed Mass: (g)	69.4	" Did not deploy		Apogee to Eject (AP2E):	-0.8	
Date of Construction:	9/19/2014	Parachute Descent		Ejection Alt. (EALt):	406 Ft	
Recommended Motors:		" Stable Descent	" Tangled lines	Descent Speed (dESc):	27 mph	
C6-3, C6-5		" Some swaying	" Sprial descent	Flight Duration (durA):	15.25 s	
		Reason for Recovery Failure		Altimeter Data Analysis		
Center Gravity(CG):	37.8 cm	" Damaged Chute		Our parachute clearly popped a little after apogee, but the data shows it		
Center Pressure(CP):		" Tight Upper Body tube				
Building Notes		" Improper setup		popped .8 seconds before. Our decent is really fast because the parachute got stuck. This also caused our flight duration to be short.		
Our yellow paint was not good. It dripped		" Chute Separated				
down underneath the tape.		" Motor Ejected				
		" Unplanned Separation				
Estimated Cd:	0.5	Parachte didn't release				
Predicted Altitude:	375 Ft	Descent Speed		Prediction vs Actual A	nalvsis	
Prediction Prediction		" Slow	" Average speed	We predicted 375 because other rockets		
Compans says that big sharky can go 650 feet in air		" Very fast	"Ballistic	with around 70 g mass usual	ly stayed	
with C6-5 engine		Landing		around here. We had less wind so it went		
				higher than previous years.		
		" Soft	"Water			
Launch Information		" Tree	" Caught on Wire			
		" Hard	" Crash			
Date:	9/25/2014	" Landed on Building		D I I. I. C	-4:	
Time of Launch:	9:15:00	Recovery		Post Launch Information		
Location:	Soccer field parking lot	" Full Recovery	" Lost	Flight Grade		
Rocket Mass(g):	69.4	" Not Recoverable		" Excellent		
Motor:	C6-3	Distance & Direction from pad: 50 yards east		" Good		
Motor Mass(g):	24.6	30 yarus east		" Fair		
Altimeter Mass(g):	9.9	Dagovany Notas		Poor		
Liftoff Mass(g):	103.9	Recovery Notes		" Rocket cannot launch again		
Wind Direction:	southeast	The parachute got stuck in the body tube. It descended very fast because of this. No		Describe any damage to the rocket:		
Wind Speed:	5 mph	damage was done though because it landed		No damage.		
Igniter:	Estes	on grass.				
No. of tries to ignite:						
Ignition						
" Successfull	" Blow Out			Rocket Project Sugge		
" Caught on clips	" Motor Failure	Lessons Learned		Be more careful about how you pack the parachute. Don't jam it in too far. Take		
Trajectory		We should have used more baby powder on the parachute. This would help it get		your time painting, use more tape.		
" Straight-Up	" Spinning	released easier.		panione, doc more	r	
" Corkscrew	" Non-vertical	Trouble Cubici.				
" Into the wind	" Unstable					
Launch Notes						
Our rocket launched the first time we tried to ignite it. We aimed it a little to the east because we didn't want a gust of wind to knock it off trajectory. There was no wind so it launched a little too far east, over the little kid soccer fields.						