Rocket Data Sheet and Launch Record

	VOCKEI D	ala Succi al		ixecoru	
Rocket Description		Recovery Information		Altimeter Two Data	
Owner:	Brooke Fleener and	Ejection Occurred		Apogee Altitude:	311 Ft
Rocket Name:	Brooke and Callie's	" During Ascent	" At Apogee	Top Speed:	76 mph
Type:	Big Sharky	-after apogee	" During Descent	Burn Time (burn):	2.25 s
Length: (inches)	22.6 in	" Ejection Failure		Peak Acc (Pacc):	7
Diameter: (inches)	1.6 in	Parachute Deployment		Avg Acc (Aacc):	1.6
Fins:	3	" Full	" Partial	Coast Apogee (C2AP):	2.85 s
Listed Mass: (g)	85 g	" Did not deploy		Apogee to Eject (AP2E):	1.9 s
Date of Construction:	September 27th	Parachute Descent		Ejection Alt. (EALt):	267 Ft
Recommended Motors: (C only)		" Stable Descent	" Tangled lines	Descent Speed (dESc):	12 mph
C6-5		" Some swaying	" Sprial descent	Flight Duration (durA):	21.5 s
		Reason for Recovery Failure		Altimeter Data Ana	
Center Gravity(CG): 13 1/4		" Damaged Chute		We predicted 319 feet and we reached	
Center Gravity(CG):	13 1/4	" Tight Upper Body tube		311 feet. It curved a little bit, so the	
Center Pressure(CP):	0.5		y tube	decrease in altitude makes se	
Estimated Cd:	0.5	" Improper setup		also tilted the launch pad at too much of an angle, so it made the rocket curve more. Our ejection altitude makes sense	
Predicted Altitude:	319 Ft	" Chute Separated			
Prediction Notes		" Motor Ejected		because our parachute deployed after apogee, so the 267 feet must have been	
I looked at rockets from last year and the one		" Unplanned Separation			
with glitter on it, like ours, only rised to 309 feet. That rocket was also slightly heavier, so I		" Other		on the way down.	
will predict that our rocket will reach an		Descent Speed			
apogee of 319 feet.		" Slow " Average speed			
		" Very fast	"Ballistic		
		Landing			
Launch Information		" Soft	" Water		
Date:	10/9/2013	" Tree	" Caught on Wire		
Time of Launch:	11:00:00	" Hard	" Crash		
Location:	CHS	" Landed on Building			
Rocket Mass:	93.1	Recovery		Post Launch Inform	ation
Motor:	C6-5	" Full Recovery	" Lost	Rocket Damage	
Motor Mass:	25.1	" Not Recoverable		" No Damage	<u> </u>
Altimeter Mass:		Distance & Direction		" Scuffed Paint	
	6.7g	Distance & Directi	on nom pau.		
Liftoff Mass:	NT d			" Launch Lugs	
Wind Direction:	North	Recovery Notes		" Engine Stuck	
Wind Speed:	12 mph	Our parachute popped after apogee and		" Fins Damaged	
Igniter:			was deployed. It only	Describe any damage to the	
No. of tries to ignite: 1		opened partially, but enough to give the		There was no damage to the	rocket.
Ignition		rocket a soft landing. Most of the other			
" Successfull	" Blow Out	groups struggled with the parachute as			
" Caught on clips	" Motor Failure	well. Some groups' parachutes didn't even open, so we were average for how our			
Trajectory		parachute deployed			
" Straight-Up	^				
" Corkscrew	" Non-vertical			Flight Grade	
" Into the wind	" Unstable	Lessons	Learned	" Excellent	
Launch Notes		I think it is safe to say that we will never		" Good	
parachute opened a little late and it was		use glitter again. It made the rocket a bit		" Poor	
twisted. It was a bit windy, but otherwise the		heavier, but more importantly, it was a		Rocket Project Suggestions	
launch went well		mess! We also learned that we need to be careful of which way the wind is blowing,		ROOKet 1 Toject Suggi	сысна
		otherwise the rocket will not go straight			
		up.			