

Rocket Data Sheet and Launch Record

Rocket Description		Recovery Information		Altimeter Two Data	
Owner:	Lauryn, Emily and	Ejection Occurred		Apogee Altitude:	424 Ft
Rocket Name:	Team Nice Dynam	“ During Ascent	“ At Apogee	Top Speed:	113mph
Type:	Big Sharky	“ After Apogee	“ During Descent	Burn Time (burn):	1.72 sec
Length: (inches)	22.625	“ Ejection Failure		Peak Acc (Pacc):	9.7 g
Diameter: (inches)	1.645	Parachute Deployment		Avg Acc (Aacc):	3.0 g
Fins:	3	“ Full	“ Partial	Coast Apogee (C2AP):	3.8 sec
Listed Mass: (g)	71.3 g	“ Did not deploy		Apogee to Eject (AP2E):	1.5 sec
Date of Construction:	9/20/2014	Parachute Descent		Ejection Alt. (EALt):	398 Ft
Recommended Motors:		“ Stable Descent	“ Tangled lines	Descent Speed (dESc):	19 mph
C6-3, C6-5		“ Some swaying	“ Sprial descent	Flight Duration (durA):	20.9
Center Gravity(CG):	39 cm (15 1/4")	Reason for Recovery Failure		Altimeter Data Analysis	
Center Pressure(CP):		“ Damaged Chute		The data from the altimeter is fairly accurate. The chute popped shortly after apogee, but the actual chute didn't deploy until about halfway down the descent. Even then the chute wasn't fully open.	
Building Notes		“ Tight Upper Body tube			
None, the building went smoothly		“ Improper setup			
		“ Chute Separated			
		“ Motor Ejected			
Estimated Cd:	0.5	“ Unplanned Separation		Prediction vs Actual Analysis	
Predicted Altitude:	650 Ft	“ Other		We predicted around 375 ft for our rocket, and we got 424 ft.	
Prediction Notes		Descent Speed			
Company says 650 ft We are predicting roughly 375 ft for our rocket.		“ Slow	“ Average speed		
		“ Very fast	“ Ballistic		
		Landing			
Launch Information		“ Soft	“ Water		
Date:	9/26/2014	“ Tree	“ Caught on Wire		
Time of Launch:	2nd Hour	“ Hard	“ Crash		
Location:	Soccer Field Parkir	“ Landed on Building			
Rocket Mass(g):	71.3	Recovery			
Motor:	C6-5	“ Full Recovery	“ Lost	Post Launch Information	
Motor Mass(g):		“ Not Recoverable	“ Parts lost	Flight Grade	
Altimeter Mass(g):	9.9	Distance & Direction from pad:		“ Excellent	
Liftoff Mass(g):	81.2	Off by the kids soccer field, close to the green water fountain		“ Good	
Wind Direction:	SE	Recovery Notes		“ Fair	
Wind Speed:	6 MPH	Lauryn caught the rocket, but it was sketchy because the parachute did not deploy until during descent, and when it did, it was only partial deployment.		“ Poor	
Igniter:	Standard	However, since Lauryn caught it, no damage was sustained		“ Rocket cannot launch again	
No. of tries to ignite:	1	Lessons Learned		Describe any damage to the rocket:	
Ignition		Always have someone catch the rocket, use more baby powder, and make sure the shroud lines aren't tangled.		No Damage	
“ Successfull	“ Blow Out			Rocket Project Suggestions	
“ Caught on clips	“ Motor Failure			None	
Trajectory					
“ Straight-Up	“ Spinning				
“ Corkscrew	“ Non-vertical				
“ Into the wind	“ Unstable	Launch Notes			
It was a sucessfull launch.					