	Rocket D	ata Sheet a	nd Launch	Record	
Rocket Description		Recovery Information		Altimeter Two Data	
Owner:	Morgan & Lauren	Ejection Occurred		Apogee Altitude:	338 Ft
Rocket Name:	A&W	" During Ascent	" At Apogee	Top Speed:	83 mph
Type:	Modelrockets.us	" After Apogee	" During Descent	Burn Time (burn):	2.2 s
Length: (inches)	22.625 in	" Ejection Failure	Ū	Peak Acc (Pacc):	7.7
Diameter: (inches)	1.645 in	Parachute Deployment		Avg Acc (Aacc):	1.7
Fins:	3	" Full	" Partial	Coast Apogee (C2AP):	3 s
Listed Mass: (g)	70.9 g	" Did not deploy		Apogee to Eject (AP2E):	1.9 s
Date of Construction:	9/27/2013	Parachute Descent		Ejection Alt. (EALt):	286 Ft
Recommended Motors: (G only)		" Stable Descent	" Tangled lines	Descent Speed (dESc):	11 mph
C6-3, C6-5		" Some swaving	" Sprial descent	Flight Duration (durA):	24.3 s
		Reason for Re	covery Failure	Altimeter Data Ana	lvsis
Center Gravity(CG):		" Damaged Chute		Unforutnately, our apogee altitude was	
Center Pressure(CP):		" Tight Upper Bod	v tube	rather low along with our top speed.	
Estimated Cd ⁻		" Improper setup		along with a successful apogee to ejection time. The flight duration was	
Predicted Altitude	380 Ft	" Chute Separated			
Prediction Notes		" Motor Ejected		shorter than most because it did not go as high. With a C6-5 engine, our coast to apogee should have been near 5 seconds, however ours was only three. This will be a contributing factor to some of our	
Although the prediction spreadsheet says 530		" Unplanned Separation			
feet, none of last years rockets were near that.		" Other			
Therefore, we totaled the apogee altitudes and		Descent Sneed			
used their average as our predicted altitude.		" Slow	·· Average speed	final results.	
		" Very fast	" Ballistic		
		Very last	ding		
Launch Information		" Soft			
Data:	10/0/2012	" Trac	" Cought on Wire		
Date.	10/9/2013	" Hand	Caught on whe		
Lagation:	4th period	" Londod on Dwildi		+-	
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Rocket Mass:	85.6 g	Kecc	overy	Post Launch Inform	ation
Motor:	25.1	Full Recovery	Lost	Kocket Damag	<u>e</u>
Motor Mass:	25.1 g	Not Recoverable Parts lost		I-No Damage	
Altimeter Mass:	6.7 g	500 feet north from pad		Scutted Paint	
Liftoff Mass:	117.4 g			Launch Lugs	
Wind Direction:	N 15 mmh	Pasavarry Notas		Engine Stuck	
Wind Speed:	15 mpn	The persecute sizeted successfully, just		Fins Damaged	
Igniter.	Estes	shortly after apogee. It had an average		Describe any damage to t	he rocket:
No. of tries to ignite:		descent speed and landed softly on the grass without any damage. It was		No damage was done during	the mgnt.
Ignition					
" Successful	" Blow Out	recovered several hur	idred feet from the		
" Caught on clips	" Motor Failure	iuuiion puu.			
Trajectory					
" Straight-Up	" Spinning	_			
" Corkscrew	" Non-vertical		.	Flight Grade	
" Into the wind	" Unstable	Lessons	Learned	" Excellent	
Launch Notes		Wind is a major contributing factor for the rocket. It is often more beneficial to launch your rocket into the wind, if there is any. This prevents a tracjectory that is parabolic or L-shaped rather than directly upward.		" Good	
The rocket went sideways (south, into the wind) although we had angled it to the next.				" Poor	
This affected our overall altitude because it did not go straight up into the air.				Rocket Project Suggestions We need to double check that all parts of our rocket are secure before gluing because we had a gap between our fin and body tube. This may have prevented our rocket from going as high because the air resistence could have slowed it	
				the air resistence could have	slowed it