	ROOKet Dau	a bheet and	Launch Re	COIG	
Rocket Description		Recovery Information		Altimeter Two Data	
Owner:	Nic Buck/Savanna Judson	Ejection	Occurred	Apogee Altitude:	394
Rocket Name:	Breaking Bad	" During Ascent	" At Apogee	Top Speed:	89
Type:	Modelrockets.us	" After Apogee	" During Descent	Burn Time (burn):	2.2
Length: (inches)	22.625 in	" Ejection Failure		Peak Acc (Pacc):	9
Diameter: (inches)	1.645 in	Parachute Deployment		Avg Acc (Aacc):	1.9
Fins:	3	" Full	" Partial	Coast Apogee (C2AP):	3.2
Listed Mass: (g)	2.5oz	" Did not deploy		Apogee to Eject (AP2E):	1.8
Date of Construction:	9/23/2013	Parachute Descent		Ejection Alt. (EALt):	359
Recommended Motors: (C only) C6-3, C6-5		" Stable Descent	" Tangled lines	Descent Speed (dESc):	34
		" Some swaying	" Sprial descent	Flight Duration (durA):	13.7
		Reason for Re	covery Failure	Altimeter Data Ana	
Center Gravity(CG):	20.45 cm	" Damaged Chute		Rocket flew straight up at a top speed o 89mph up to 394 feet in the air. The engine burned for 2.2 seconds. The peal	
Center Pressure(CP):		" Tight Upper Body tube			
Estimated Cd:	0.5	" Improper setup		acceleration of the rocket was 9 m/s/s,	
Predicted Altitude:	375 Ft	" Chute Separated		yet the average acceleration was 1.2	
Prediction Notes		" Motor Ejected		m/s/s. It coasted in the air for 3.2 seconds and then coasted from apogee t eject at 1.8 seconds. The rocket began it descent which was straight down at 34	
Prediction spreadsheet says 530 ft but last years		" Unplanned Separation			
launches were not even close to that. Last year was a bit windy so I am going with a value just a little higher. The		" Other			
rocket with the closest mass to ours had an altitude of		Descent Speed mph. The parachute attemp			
around 380. It was a windy day, so if it is not windy on		" Slow	" Average speed	359 feet but failed to eject an nosedived into the ground. T	
the day we launch, I am predicting an altitude of a little higher than 380.		" Very fast	" Ballistic	flight took 13.7 seconds.	
nigher than 380.		Landing			
Launch Information		" Soft	" Water		
Date:	10/9/2013	" Tree	" Caught on Wire		
Time of Launch:		" Hard	" Crash		
Location:	Location:		ng		
Rocket Mass:	73.8g	Recovery		Post Launch Information	
Motor:	C6-5	" Full Recovery	" Lost	Rocket Damage	<u> </u>
Motor Mass:	25.1g	" Not Recoverable	" Parts lost	" No Damage	
Altimeter Mass:	6.7g	Distance & Direction from pad:		" Scuffed Paint	
Liftoff Mass:	105.6g	About 50 meters Southwest of launch pad		" Launch Lugs	
Wind Direction:				" Engine Stuck	
Wind Speed:		Recovery Notes		" Fins Damaged	
Igniter:	Estes	Was unhardmed, although it had a hard		Describe any damage to the rocket:	
No. of tries to ignite:		landing. Nose cone w body tube	as still attached to the	No damage	
I	gnition	body tube			
" Successfull	" Blow Out				
" Caught on clips	" Motor Failure				
Tı	ajectory				
" Straight-Up	" Spinning				
" Corkscrew	" Non-vertical			Flight Grade	
" Into the wind	" Unstable	Lessons	Learned	" Excellent	
Launch Notes		Put parachute into the body tube looser so		" Good	
Parachute deployed, but failed to leave the body tube. 12		that it will deploy correctly. Shave parts of		" Poor	
mph wind speed to the north. The rocket was tilted with the wind so the wind hit the fins and went straight up.		body tube end to make the nose cone fit looser. Maybe added too much paint, would have gone higher if it didn't weigh		Rocket Project Suggestions	
				Better representation of how to put	
		as much.		parachute into the body tube	
		as mach.		parameters and the court the c	