Rocket Data Sheet and Launch Record					
Rocket Description		Recovery Information		Altimeter Two Data	
Owner:	Nick Reetz, Brody		Occurred	Apogee Altitude:	448 Ft
Rocket Name:	Venom	" During Ascent	" At Apogee	Top Speed:	119 mph
Type:	ModelRockets.us	" After Apogee	" During Descent	Burn Time (burn):	1.93 sec
Length: (inches)	22.625 in.	" Ejection Failure		Peak Acc (Pacc):	10.4 G
Diameter: (inches)	1.645 in.	Parachute Deployment		Avg Acc (Aacc):	2.8 G
Fins:	1/8 in. Balsa	" Full	" Partial	Coast Apogee (C2AP):	4.0 sec
Listed Mass: (g)	2.5 oz	" Did not deploy		Apogee to Eject (AP2E):	1.1 sec
Date of Construction:	9/19/2014	Parachute Descent		Ejection Alt. (EALt):	424 Ft
Recommended Motors:		" Stable Descent	" Tangled lines	Descent Speed (dESc):	10 mph
C6-3, C6-5		" Some swaying	" Sprial descent	Flight Duration (durA):	35.5 sec
		Reason for Recovery Failure		Altimeter Data Ana	
Center Gravity(CG):		" Damaged Chute		Everything seems to be correct.	
Center Pressure(CP):		" Tight Upper Bod	y tube	Parachute came out after the apogee, which the numbers agree with.	
Building Notes		" Improper setup		which the numbers agree with.	
One fin slightly loose		" Chute Separated			
		" Motor Ejected			
		" Unplanned Separation			
Estimated Cd:	0.5	" Other			
Predicted Altitude:	420 Ft	Descent Speed		Prediction vs Actual Analysis	
Prediction		" Slow	" Average speed	We predicted 420 ft, and it w	
company says 650 ft on C6-5		" Very fast	" Ballistic	we were pretty close.	
		<u> </u>	ding		
		" Soft	" Water		
		" Tree	" Caught on Wire		
Launch Information		" Hard	" Crash		
Date:	9/25/2014	" Landed on Building			
Time of Launch:	9:30:00	Recovery		Post Launch Inform	ation
Location:	parking lot soccer f	" Full Recovery	" Lost	Flight Grade	
Rocket Mass(g):	6930	" Not Recoverable		" Excellent	
Motor:	C6-5	Distance & Direction		" Good	
Motor Mass(g):	24	about 75 yards north	•	" Fair	
Altimeter Mass(g):	9.9			" Poor	
Liftoff Mass(g):	6963.9	Recovery Notes		" Rocket cannot launch again	
Wind Direction:	from South	Came down pretty slow, but lines were tangled up. Brody caught it, but it would have landed softly on the grass.		Describe any damage to the rocket:  none	
Wind Speed:	1 mph				
Igniter:	Estes				
No. of tries to ignite:	3				
Ignition		1			
" Successfull " Blow Out				Rocket Project Sugge	estions
" Caught on clips	" Motor Failure	Lessons	Learned	With no wind, the C6-5 seem	
Traject		Try to keep shock cord straight, it got		very well, maybe get more of those.	
" Straight-Up " Spinning		tangled slightly. Don't put engine cap on			
" Corkscrew	" Non-vertical	too tight, or the rocket won't launch. Make sure clips are fully on the igniter.			
"Into the wind	"Unstable				
Launch Notes					
Took a couple tries to launch. First time plug					
was in too tight. Second time igniter came off of clips. Third try successful.					