Rocket Description		
Owner: Tanner, Chris Dest		
Rocket Name:	Nutech	
Туре:	Sumo	
Length: (inches)	39"	
Diameter: (inches)	4"	
Fins:	4	
Listed Mass: (g)	907g	
Date of Construction:	4/1/2016	
Recommended Motors: (G only)		
RMS(G64-4, G71-4, G76-4) SU(G38-4, G40-4, G77-4, G78-4, G79-4, G80-7		
Center Gravity(CG):	26.25"	
Center Pressure(CP):	29.5	
Building Notes		
building was fine, all parts attached, package did not have any missing parts. The rocket went together smoothly, had a		
Estimated Cd:	0.34	
Predicted Altitude:	840'	
Prediction		
with that Cd it gave us a very good prediction altitude which is 840 ft. We chose 840 ft because again it was in the		
Launch Info		
Date:	5/3/2016	
Time of Launch:	9:10 AM	
Location:	SW of school in the	
Rocket Mass(g):	1035	
Motor:	G76-4	
Motor Mass(g):	143	
Altimeter Mass(g):	9.9	
Liftoff Mass(g):	1187.9	
Wind Direction:	Blowing West	
Wind Speed:	10 mph	
Igniter:	first fire	
No. of tries to ignite:	1	
Igniti	on	
" Successfull	" Blow Out	
" Caught on clips	" Motor Failure	
Traject	ory	
" Straight-Up	" Spinning	
" Corkscrew	" Non-vertical	
" Into the wind	" Unstable	
Launch 1		
set up was good, all connections were working, launched on 1st attempt, fast takeoff, very loud (thought it was louder than other sumos)		

Fins:		
Recovery Information		
Ejection	Occurred	
" During Ascent	" At Apogee	
" After Apogee	" During Descent	
" Ejection Failure		
Parachute Deployment		
" Full	" Partial	
" Did not deploy		
Parachut	e Descent	
" Stable Descent	" Tangled lines	
" Some swaying	" Sprial descent	
Reason for Recovery Failure		
" Damaged Chute		
" Tight Upper Body tube		
" Improper setup		
" Chute Separated		
" Motor Ejected		
" Unplanned Separation		
" Other		
Descen	t Speed	
" Slow	" Average speed	
" Very fast	" Ballistic	
Lan	ding	
" Soft	" Water	
" Tree	" Caught on Wire	
" Hard	" Crash	
" Landed on Buildi	ng	
Reco		
" Full Recovery	" Lost	
" Not Recoverable	" Parts lost	
Distance & Directio	_	
East about 300 ft on t fields	he football practice	
Recover	y Notes	
landed on the fin and		
bounced hard, chute c way so it was coming	down a little fast than	
average, the fin was le		
Post Launch	Information	
Flight	Grade	
" Excellent		
" Good		
" Fair		
" Poor		
"Rocket cannot launch again		
Describe any dama	age to the rocket:	
The flight was excellant. The only bad		
thing was the altimeter. When recovered, the fin was lose because the fins hit first on		
the ground and bounced hard. Also, when		
looked at after the shock cord was stretched out and only holding on by a few strings. It		
about tore in half. Oth	nerwise all the stickers	
and paint were still or the body.	and no damage to	

Altimeter Two Data		
Apogee Altitude:	-	
Top Speed:	-	
Burn Time (burn):	-	
Peak Acc (Pacc):	-	
Avg Acc (Aacc):	-	
Coast Apogee (C2AP):	-	
Apogee to Eject (AP2E):	-	
Ejection Alt. (EALt):	-	
Descent Speed (dESc):	-	
Flight Duration (durA):	-	
Altimeter Data An		
Altimeter was jammed into t cone. The hole wasn't big en jammed it in and then had to We believe it didn't work be we pushed it into the nose co pressure changed and set it o we received was inaccurate.	ough so we o cut it out. cause when one, the off. The data	
Prediction vs Actual	Analysis	
We didn't get the right data s	so we can't	
compare anything. It looked around 800 ft which is close		
prediction which was 840 ft.	We	
launched into the wind causi to fly straight up. It was also	ang the rocket calm the	
time we launched so I don't	think	
anything really affected the a	annude.	
-		
Lessons Learne	he	
We learned that we should a	ll agree on a	
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