

Rocket Data Sheet and Launch Record

Rocket Description		Recovery Information		Altimeter Two Data	
Owner:	Colton & Alex	Ejection Occurred		Apogee Altitude:	373 Ft
Rocket Name:	GTA V	“ During Ascent	“ At Apogee	Top Speed:	93 mph
Type:	Big Sharky	“ After Apogee	“ During Descent	Burn Time (burn):	2.3 s
Length: (inches)	22.625 in	“ Ejection Failure		Peak Acc (Pacc):	8.2
Diameter: (inches)	1.645 in	Parachute Deployment		Avg Acc (Aacc):	1.9
Fins:	3	“ Full	“ Partial	Coast Apogee (C2AP):	4
Listed Mass: (g)	70.87 g	“ Did not deploy		Apogee to Eject (AP2E):	-0.1
Date of Construction:	9/26/2013	Parachute Descent		Ejection Alt. (EALt):	328
Recommended Motors: (G only)		“ Stable Descent	“ Tangled lines	Descent Speed (dESc):	20
C6-5		“ Some swaying	“ Spiral descent	Flight Duration (durA):	17.1
Center Gravity(CG):	13.875 in	Reason for Recovery Failure		Altimeter Data Analysis	
Center Pressure(CP):		“ Damaged Chute		Because our parachute didn't deploy, our duration and descent speed were different than others. The coast to apogee was about right, just one second shorter. Avg. acceleration and peak acceleration were pretty consistent with the others.	
Estimated Cd:		“ Tight Upper Body tube			
Predicted Altitude:	440	“ Improper setup			
Prediction Notes		“ Chute Separated			
Based on last year's results, our rocket is lighter than those rockets, plus the wind probably won't be as strong, allowing for a higher launch		“ Motor Ejected			
		“ Unplanned Separation			
		“ Other chute got stuck in tube			
		Descent Speed			
		“ Slow	“ Average speed		
		“ Very fast	“ Ballistic		
Launch Information		Landing			
Date:	10/8/2013	“ Soft	“ Water		
Time of Launch:	13:15:00	“ Tree	“ Caught on Wire		
Location:	West of HS	“ Hard	“ Crash		
Rocket Mass:	71.7g	“ Landed on Building		Post Launch Information	
Motor:	C6-5	Recovery		Rocket Damage	
Motor Mass:	25.2 g	“ Full Recovery	“ Lost	“ No Damage	
Altimeter Mass:	6.7g	“ Not Recoverable	“ Parts lost	“ Scuffed Paint	
Liftoff Mass:	104.4 g	Distance & Direction from pad:		“ Launch Lugs	
Wind Direction:	south	75 yards south		“ Engine Stuck	
Wind Speed:	15 mph	Recovery Notes		“ Fins Damaged	
Igniter:		parachute didn't leave body tube.		Describe any damage to the rocket:	
No. of tries to ignite:	1			one little scratch in the paint	
Ignition					
“ Successfull	“ Blow Out				
“ Caught on clips	“ Motor Failure				
Trajectory					
“ Straight-Up	“ Spinning				
“ Corkscrew	“ Non-vertical				
“ Into the wind	“ Unstable			Flight Grade	
Launch Notes		Lessons Learned		“ Excellent	
windy, no launch angle, on descent around 300 ft in the air, the rocket kind of stopped and floated, like caught on an air current or something		angle rocket with the wind		“ Good	
				“ Poor	
				Rocket Project Suggestions	
				Make sure the chute is able to be ejected, angle the rocket away from the wind	