

Rocket Data Sheet and Launch Record

Rocket Description		Recovery Information		Altimeter Two Data	
Owner:	Cody & Mason	Ejection Occurred		Apogee Altitude:	448 Ft
Rocket Name:	Dumb & Dumber	“ During Ascent	“ At Apogee	Top Speed:	104 mph
Type:	https://www.model	“ After Apogee	“ During Descent	Burn Time (burn):	2.29 s
Length: (inches)	22.625	“ Ejection Failure		Peak Acc (Pacc):	7.4
Diameter: (inches)	1.645	Parachute Deployment		Avg Acc (Aacc):	2.1
Fins:	3	“ Full	“ Partial	Coast Apogee (C2AP):	3.9 s
Listed Mass: (g)	73.4	“ Did not deploy		Apogee to Eject (AP2E):	1.5 s
Date of Construction:	9/4/2014	Parachute Descent		Ejection Alt. (EALt):	408 Ft
Recommended Motors: (C only)		“ Stable Descent	“ Tangled lines	Descent Speed (dESc):	8 mph
C6-3, C6-5		“ Some swaying	“ Sprial descent	Flight Duration (durA):	39.7
Center Gravity(CG):	15 1/8in from nose	Reason for Recovery Failure		Altimeter Data Analysis	
Center Pressure(CP):		“ Damaged Chute		The one number that we were worried about, apogee to eject, seems to be correct. Going from 448 feet to 408 feet without a parachute could potentially only take 1.5 seconds.	
Building Notes		“ Tight Upper Body tube			
Had to cut fins to fit in slots. Engine hook is out too far so rocket does not stand on fins. Nose cone got stuck due to excess spray paint between nose cone and body tube.		“ Improper setup			
Estimated Cd:		“ Chute Separated			
Predicted Altitude:		“ Motor Ejected			
Predicted Altitude:		“ Unplanned Separation		Prediction vs Actual Analysis	
Predicted Altitude:		“ Other		We predicted our rocket to go above 400 ft. We were right. However, we could've given a more accurate prediction. Plus, the rocket went a good amount above 400 ft at 448 ft.	
Prediction Notes		Descent Speed			
Company predicts 650 ft. We predicted the rocket to go above 400 ft.		“ Slow	“ Average speed		
Launch Information		“ Very fast	“ Ballistic		
		Landing			
		“ Soft	“ Water		
Date:		“ Tree	“ Caught on Wire	Post Launch Information	
Time of Launch:		“ Hard	“ Crash	Flight Grade	
Location:		“ Landed on Building		“ Excellent “ Good “ Fair “ Poor “ Rocket cannot launch again	
Rocket Mass(g):		Recovery			
Motor:		“ Full Recovery	“ Lost		
Motor Mass(g):		“ Not Recoverable	“ Parts lost		
Altimeter Mass(g):		Distance & Direction from pad:			
Liftoff Mass(g):		Landed 20 ft. west of of launch pad.		Describe any damage to the rocket:	
Wind Direction:		Recovery Notes		There was no damage to the rocket at all.	
Wind Speed:		Caught rocket in air. Rocket was on it's way towards the gravel on a stable descent.			
Igniter:		Lessons Learned			
No. of tries to ignite:					
Ignition					
“ Successfull	“ Blow Out	Don't shove igniter too far into the engine. Otherwise it will not ignite. Add one more sheet of wadding to help prevent melting of the parachute and shroud lines		Rocket Project Suggestions	
“ Caught on clips	“ Motor Failure			One suggestion that we can think of would be to show how deep the engine holder assembly should be placed. This was one of our only problems with our rocket because we didn't puch it in far enough. The engine hook ended up sticking too far out of our rocket. This made it so our rocket couldn't stand on it's own. So, a measurement of this part of the assembly would be beneficial.	
Trajectory					
“ Straight-Up	“ Spinning				
“ Corkscrew	“ Non-vertical				
“ Into the wind	“ Unstable	Launch Notes			
Overall a successfull launch. Rocket for the most part went straight up without any problem.					