

Rocket Data Sheet and Launch Record

Rocket Description		Recovery Information		Altimeter Two Data	
Owner:	Dezeray, Sarah, and Trisha	Ejection Occurred		Apogee Altitude:	423 Ft
Rocket Name:	WooHoo!	¨ During Ascent	¨ At Apogee	Top Speed:	110 mph
Type:	ModelRockets.us	¨ After Apogee	¨ During Descent	Burn Time (burn):	2.5 sec
Length: (inches)	22.625 in	¨ Ejection Failure		Peak Acc (Pacc):	8.0 gs
Diameter: (inches)	1.645 in	Parachute Deployment		Avg Acc (Aacc):	2.5 gs
Fins:	Laser-Cut 1/8 in Balsa	¨ Full	¨ Partial	Coast Apogee (C2AP):	3.5 sec
Listed Mass: (g)	72.3 g	¨ Did not deploy		Apogee to Eject (AP2E):	-0.6 sec
Date of Construction:	September 19th	Parachute Descent		Ejection Alt. (EALt):	413 Ft
Recommended Motors:		¨ Stable Descent	¨ Tangled lines	Descent Speed (dESc):	9 mph
C6-3, C6-5		¨ Some swaying	¨ Sprial descent	Flight Duration (durA):	35 sec
		Reason for Recovery Failure		Altimeter Data Analysis	
Center Gravity(CG):	37.9	¨ Damaged Chute			
Center Pressure(CP):		¨ Tight Upper Body tube			
Building Notes		- Improper setup			
While building the engine, we put the string on backwards; so we had to untie it and reattach it the right way. Even after we super glued it.		¨ Chute Separated			
Estimated Cd:		¨ Motor Ejected			
Predicted Altitude:	0.5	¨ Unplanned Separation		Prediction vs Actual Analysis	
		¨ Other			
Prediction Notes		Descent Speed			
Company says goes up to 650 ft high. We hope the rocket will reach an average of 400 ft high.		¨ Slow	¨ Average speed		
		¨ Very fast	¨ Ballistic		
		Landing			
		¨ Soft	¨ Water		
		¨ Tree	¨ Caught on Wire		
		¨ Hard	¨ Crash		
		¨ Landed on Building			
Launch Information		Recovery		Post Launch Information	
Date:	9/26/2014	¨ Full Recovery	¨ Lost	Flight Grade	
Time of Launch:	about 9:15am	¨ Not Recoverable	¨ Parts lost	¨ Excellent	
Location:	Soccer Feild Parking Lot	Distance & Direction from pad:		¨ Good	
Rocket Mass(g):	72.3 g	10 yards		¨ Fair	
Motor:	C6-3	Recovery Notes		¨ Poor	
Motor Mass(g):	9.9	Our rocket was in good shape because Lauren caught it for us so it didn't touch the ground.		¨ Rocket cannot launch again	
Altimeter Mass(g):	9.9			Describe any damage to the rocket:	
Liftoff Mass(g):	9.9				
Wind Direction:	Going west				
Wind Speed:	6 mph				
Igniter:	Esets				
No. of tries to ignite:	1	Ignition		Rocket Project Suggestions	
¨ Successfull		¨ Blow Out			
¨ Caught on clips		¨ Motor Failure			
Trajectory		Lessons Learned			
¨ Straight-Up		Make sure everything is on correctly before you super glue.			
¨ Corkscrew					
¨ Non-vertical					
¨ Into the wind					
Launch Notes					
Our rocket curved to the North.					