

Rocket Data Sheet and Launch Record

Rocket Description		Recovery Information		Altimeter Two Data	
Owner:	Brent, Jonney, Ton	<u>Ejection Occurred</u>		Apogee Altitude:	305 Ft
Rocket Name:	Frank the Tank	“ During Ascent	“ At Apogee	Top Speed:	83
Type:	Modelrocket.us	“ After Apogee	“ During Descent	Burn Time (burn):	2.2 s
Length: (inches)	22.625	“ Ejection Failure		Peak Acc (Pacc):	7.6
Diameter: (inches)	1.645	<u>Parachute Deployment</u>		Avg Acc (Aacc):	1.7
Fins:	3	“ Full	“ Partial	Coast Apogee (C2AP):	4.1 s
Listed Mass: (g)	70.75	“ Did not deploy		Apogee to Eject (AP2E):	-0.5 s
Date of Construction:	Sep 6th	<u>Parachute Descent</u>		Ejection Alt. (EALt):	260 Ft
Recommended Motors: (G only)		“ Stable Descent	“ Tangled lines	Descent Speed (dESc):	8
C6-2, C6-3		“ Some swaying	“ Sprial descent	Flight Duration (durA):	26.3 s
Center Gravity(CG):		<u>Reason for Recovery Failure</u>		<u>Altimeter Data Analysis</u>	
Center Pressure(CP):		“ Damaged Chute		The altitude was a lot lower than what we thought would happen. The ejection altitude was way off. The ejection altitude was way lower than the apogee, but the ejection time was half a second before apogee. The burn time is constant for the rocket. The ejection altitude was a little lower than it should have been. I think the wind was the biggest factor of why my predictions were off.	
Estimated Cd:		“ Tight Upper Body tube			
Predicted Altitude:	350	“ Improper setup			
<u>Prediction Notes</u>		“ Chute Separated			
My predoction is rocket is going to Straight line, but I don't happend it going to bend.		“ Motor Ejected			
		“ Unplanned Separation			
		“ Other			
		<u>Descent Speed</u>			
		“ Slow	“ Average speed		
		“ Very fast	“ Ballistic		
<u>Launch Information</u>		<u>Landing</u>			
Date:		“ Soft	“ Water		
Time of Launch:		“ Tree	“ Caught on Wire		
Location:		“ Hard	“ Crash		
Rocket Mass:	85.2	“ Landed on Building			
Motor:	C6-5	<u>Recovery</u>		<u>Post Launch Information</u>	
Motor Mass:	25.1g	“ Full Recovery	“ Lost	<u>Rocket Damage</u>	
Altimeter Mass:	6.7g	“ Not Recoverable	“ Parts lost	“ No Damage	
Liftoff Mass:	117.0g	Distance & Direction from pad:		“ Scuffed Paint	
Wind Direction:		100ft east		“ Launch Lugs	
Wind Speed:		<u>Recovery Notes</u>		“ Engine Stuck	
Igniter:	Estes	One parachute loop was detached. The disent speed was average. Are shoot did not deploy.		“ Fins Damaged	
No. of tries to ignite:	2			Describe any damage to the rocket: The rocket only had one of the parashute cords disconnect from the shoot. It was a easy fix for next time.	
<u>Ignition</u>					
“ Successfull	“ Blow Out				
“ Caught on clips	“ Motor Failure				
<u>Trajectory</u>					
“ Straight-Up	“ Spinning	<u>Flight Grade</u>			
“ Corkscrew	“ Non-vertical	“ Excellent			
“ Into the wind	“ Unstable	“ Good			
<u>Launch Notes</u>		<u>Lessons Learned</u>		“ Poor	
		- The wind velocity can change speed and rocket's direction. When it is windy setup the lanch pad so the rocket goes with the wind not aganst the wind.		<u>Rocket Project Suggestions</u>	