

Rocket Data Sheet and Launch Record

Rocket Description		Recovery Information		Altimeter Two Data			
Owner:	Callie, Dani, Abby	Ejection Occurred		Apogee Altitude:	767		
Rocket Name:	Si-Ride	☐ During Ascent	☐ At Apogee	Top Speed:	135		
Type:	G-Force	☐ After Apogee	☐ During Descent	Burn Time (burn):	1.4		
Length: (inches)	60	☐ Ejection Failure		Peak Acc (Pacc):	14.7		
Diameter: (inches)	4	Parachute Deployment		Avg Acc (Aacc):	4.4		
Fins:	3	☐ Full	☐ Partial	Coast Apogee (C2AP):	5.3		
Listed Mass: (g)	907 grams	☐ Did not deploy		Apogee to Eject (AP2E):	-1.1		
Date of Construction:	February 2014	Parachute Descent		Ejection Alt. (EALt):	706		
Recommended Motors: (G only)	G64-4W, G76-4G,	☐ Stable Descent	☐ Tangled lines	Descent Speed (dESc):	12		
		☐ Some swaying	☐ Sprial descent	Flight Duration (durA):			
		Reason for Recovery Failure		Altimeter Data Analysis			
Center Gravity(CG):	38.3 in	☐ Damaged Chute		We had an altimeter two. We predicted 800 feet at apogee and got a result of 767 feet. I would say this is accurate, the G-Force doesn't go as high as some of the other rockets. Our prediction was fairly close. The rest of the data seems accurate. The altimeter says the parachute popped at 706 feet, and the burn time was 1.4 seconds--all accurate.			
Center Pressure(CP):	46 in	☐ Tight Upper Body tube					
Estimated Cd:	0.288	☐ Improper setup					
Predicted Altitude:	800 Ft	☐ Chute Separated					
Prediction Notes		☐ Motor Ejected					
I think our rocket will reach the predicted altitude. I think our engine will work to get our rocket up in the air. Our rocket is a bit heavier than some others, so we picked a powerful enough rocket. I do not think our rocket will go much higher than 800 feet.		☐ Unplanned Separation					
		☐ Other _____					
		Descent Speed					
		☐ Slow	☐ Average speed				
		☐ Very fast	☐ Ballistic				
		Landing					
Launch Information		☐ Soft	☐ Water				
Date:		☐ Tree	☐ Caught on Wire				
Time of Launch:		☐ Hard	☐ Crash				
Location:		☐ Landed on Building					
Rocket Mass:	1,110 g	Recovery		Post Launch Information			
Motor:	G76-4	☐ Full Recovery	☐ Lost	Rocket Damage			
Motor Mass:	143 g	☐ Not Recoverable	☐ Parts lost	☐ No Damage			
Altimeter Mass:	6.7g	Distance & Direction from pad:		☐ Scuffed Paint			
Liftoff Mass:	1259.7	South West about 200 yards from launch pad		☐ Launch Lugs			
Wind Direction:				☐ Engine Stuck			
Wind Speed:		Recovery Notes		☐ Fins Damaged			
Igniter:		Complete Recovery with no damage.		Describe any damage to the rocket:			
No. of tries to ignite:				None			
Ignition							
☐ Successfull	☐ Blow Out						
☐ Caught on clips	☐ Motor Failure						
Trajectory							
☐ Straight-Up	☐ Spinning						
☐ Corkscrew	☐ Non-vertical						
☐ Into the wind	☐ Unstable						
Launch Notes		Lessons Learned		Flight Grade			
We will add more powder to increase delay charge		Using materials like modge podge can decrease the maximum altitude of your rocket.		☐ Excellent			
				☐ Good			
				☐ Poor			
		Rocket Project Suggestions					
				Maybe having people check their parachutes before they launch because there were a lot of issues with them popping out.			