

# Rocket Data Sheet and Launch Record

Rocket Description		Recovery Information		Altimeter Two Data				
Owner:	Kennady & Hannal	<b>Ejection Occurred</b>		Apogee Altitude:	315 Ft			
Rocket Name:	Mike & Ike	⌘ During Ascent	⌘ At Apogee	Top Speed:	89 mph			
Type:	ModelRockets.us	⌘ After Apogee	⌘ During Descent	Burn Time (burn):	2.8 s			
Length: (inches)	22.625 inches	⌘ Ejection Failure		Peak Acc (Pacc):	6.9 g			
Diameter: (inches)	1.645 inches	<b>Parachute Deployment</b>		Avg Acc (Aacc):	2.0 g			
Fins:	3	⌘ Full	⌘ Partial	Coast Apogee (C2AP):	3.0 s			
Listed Mass: (g)	87.1 grams	⌘ Did not deploy		Apogee to Eject (AP2E):	.2 s			
Date of Construction:	9/19/2014	<b>Parachute Descent</b>		Ejection Alt. (EALt):	314 Ft			
Recommended Motors:		⌘ Stable Descent	⌘ Tangled lines	Descent Speed (dESc):	9 mph			
C6-5 or C6-3		⌘ Some swaying	⌘ Sprial descent	Flight Duration (durA):	27.5 s			
Center Gravity(CG):	37.9 cm	<b>Reason for Recovery Failure</b>		<b>Altimeter Data Analysis</b>				
Center Pressure(CP):		⌘ Damaged Chute		Our rocket didn't reach nearly the apogee of what we predicted, or compared to the apogees of our classmates' rockets. This could've been due to the weight of our rocket being heavier than most. Our descent speed was average compared to other rockets. Overall, the launch of rocket was fine, it was just the apogee that wasn't reached.				
<b>Building Notes</b>		⌘ Tight Upper Body tube						
We didn't have any building issues. We sanded the edges of the fins a bit before attaching them. We realized with the fluorescent paint that it needed multiple		⌘ Improper setup						
		⌘ Chute Separated						
		⌘ Motor Ejected						
Estimated Cd:	0.5	⌘ Unplanned Separation						
Predicted Altitude:	345 feet	⌘ Other		<b>Prediction vs Actual Analysis</b>				
<b>Prediction Notes</b>		<b>Descent Speed</b>		Our prediction was that our rocket would soar to 345 feet. When even predicted a little lower than others in our class because our rocket was heavier than others. Unfortunately, our rocket didn't even reach our prediction apogee. It only soared to 315 feet.				
The company of the "Big Sharky" rocket predicts that the rocket will soar to 650 ft using a C6-5 engine.		⌘ Slow	⌘ Average speed					
		⌘ Very fast	⌘ Ballistic					
		<b>Landing</b>						
<b>Launch Information</b>		⌘ Soft	⌘ Water					
		⌘ Tree	⌘ Caught on Wire					
Date:	9/25/2014	⌘ Hard	⌘ Crash	<b>Post Launch Information</b>				
Time of Launch:	9:35:00	⌘ Landed on Building		<b>Flight Grade</b>				
Location:	Parking lot of socce	<b>Recovery</b>		⌘ Excellent ⌘ Good ⌘ Fair ⌘ Poor ⌘ Rocket cannot launch again				
Rocket Mass(g):	87.1	⌘ Full Recovery	⌘ Lost					
Motor:	C6-3	⌘ Not Recoverable	⌘ Parts lost					
Motor Mass(g):	24.8	Distance & Direction from pad:		<b>Describe any damage to the rocket:</b>				
Altimeter Mass(g):	9.9	The rocket landed about 50 yds from the launch pad, to the east of it. It landed near the middle school practice field(the bowl)		No damage was done to the rocket.				
Liftoff Mass(g):	121.8	<b>Recovery Notes</b>						
Wind Direction:	SE	Everything that should have happened during launch time did. The parachute deployed correctly, and the descent was average speed. The landing was soft because the parachute deployed.		<b>Rocket Project Suggestions</b>				
Wind Speed:	5 mph	<b>Lessons Learned</b>		Using less paint and image so that your rocket weighs less than 89 grams, this definitely had an effect on the height our rocket was able to reach. Using a C6-3 engine was a good choice for our rocket. I think the rocket project goes very smoothly though, props Mr. Duhrkopf!				
Igniter:	estes	We didn't have any problems with our rocket's launch. I think one lesson learned is maybe not make our rocket so heavy. That way our rocket would be able to reach a higher apogee. We could achieve this goal if we didn't put paper on the fins.						
No. of tries to ignite:	One							
<b>Ignition</b>								
⌘ Successfull	⌘ Blow Out	<b>Trajectory</b>						
⌘ Caught on clips	⌘ Motor Failure							
<b>Launch Notes</b>								
After the countdown was completed for launch off, there was a delay after about ten feet off launch pad. This could've been due to the initial lighting of the engine.								
						⌘ Straight-Up		⌘ Spinning
						⌘ Corkscrew		⌘ Non-vertical
⌘ Into the wind		⌘ Unstable						

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