Rocket Data Sheet and Launch Record					
Rocket Description		Recovery Information		Altimeter Two Data	
Owner:	Brady, Brandon S.	Ejection Occurred		Apogee Altitude:	392 Ft
Rocket Name:	Rainbow Rocket	" During Ascent	" At Apogee	Top Speed:	98 mph
Type:	Big Sharky	" After Apogee	" During Descent	Burn Time (burn):	2.2 sec
Length: (inches)	22.625 in.	" Ejection Failure		Peak Acc (Pacc):	6.56 gs
Diameter: (inches)	1.645 in.	Parachute Deployment		Avg Acc (Aacc):	2.16 gs
Fins:	1/8 in. Balsa Wood	" Full	" Partial	Coast Apogee (C2AP):	3.4 sec
Listed Mass: (g)	73.1 g	" Did not deploy		Apogee to Eject (AP2E):	1.1 sec
Date of Construction:	Sept. 19, 2014	Parachute Descent		Ejection Alt. (EALt):	381 feet
Recommended Motors:		" Stable Descent	" Tangled lines	Descent Speed (dESc):	10 mph
C6-3 and C6-5		" Some swaying	" Sprial descent	Flight Duration (durA):	30.4 sec
		Reason for Re	covery Failure	Altimeter Data Ana	lysis
Center Gravity(CG):	37.4 cm	" Damaged Chute		You could say that our rocket launch was pretty normal. Besides the descent, it was regular. We had an average	
Center Pressure(CP):		" Tight Upper Body tube			
Building Notes		" Improper setup		descent time, average altitude, etc.	
-added poor matte finish and rounded off		" Chute Separated			
fins		" Motor Eiected			
		" Unplanned Separation			
Estimated Cd [.]	0.5	" Other			
Predicted Altitude:	395 feet	Descent Speed		Prediction vs Actual Analysis	
Prediction	Notes	" Slow	" Average speed	We predicted that the rocket	would go
According to the website we should be able to		" Very fast	" Ballistia	395 feet but our rocket actually went 392. We were really close to our prediction.	
launch roughly 650 feet. We predict that our rocket		Very last	ding		
will go roughly 395 feet. When you consider the average mass of the rocket the atmospheric			uiig 		
conditions, and any other varying aspect of the		" Tree	" Coucht on Wine		
rocket or launch process, this seemed to be the		" Hand	Caught on wire		
		Hard	Crasn		
Date:	9/26/2014	Landed on Building		De et Leure els Inferen	-4:
Time of Launch:	2nd Period	" E II D	very	Post Launch Inform	ation
Location:	CMS Soccer Parkir	Full Recovery	Lost	Flight Grade	
Rocket Mass(g):	/3.1	Not Recoverable Parts lost		Excellent	
Motor:	<u>C6 - 5</u>	Our rocket went un strigght but came		Good	
Motor Mass(g):	24.7	down roughly 40-50 yards North of where			
Altimeter Mass(g):	9.9	we launched in the parking lot		Poor	
Liftoff Mass(g):	107.7	Recovery Notes		"Rocket cannot launch again	
Wind Direction:	Southeast	ground. It is ready to launch again need be		Describe any damage to the rocket: There was no damage done to the rocket. Our fins were not flush to the body	
Wind Speed:	6 mph				
Igniter:				before launch.	. 00dy
No. of tries to ignite: 2		_			
Ignition					
" Successfull	" Blow Out			Rocket Project Suggestions	
" Caught on clips	" Motor Failure	Lessons Learned		I would tell them to apply less paint while still remaining creative. I would	
Trajectory		We didn't have the white rings to put around our parachute circles so we had to makeshift something. Maybe have used		make sure to have everything flush to the rocket before you super glue. Don't	
" Straight-Up " Spinning					
" Corkscrew	" Non-vertical	more baby powder and less paint.		add any sort of matte finish. Make sure you don't insert the ignition plug to far into the bottom of the engine	
" Into the wind	" Unstable				
Launch Notes					
Didn't know that he (Brady) had to hold the					
button down, so it took longer to launch. It went up relatively straight but came down					
more North of our location on the football					
field. It came down in a "corkscrew" fasion.					