Rocket Data Sheet and Launch Record					
Rocket Description		Recovery Information		Altimeter Two Data	
Owner:	Maddie Bock/ Hay	Ejection Occurred		Apogee Altitude:	383
Rocket Name:	Soarin', Flyin'	" During Ascent	" At Apogee	Top Speed:	98
Туре:	model rockets .	" After Apogee	" During Descent	Burn Time (burn):	2.2
Length: (inches)	22.625	" Ejection Failure		Peak Acc (Pacc):	7
Diameter: (inches)	1.645	Parachute Deployment		Avg Acc (Aacc):	2
Fins:	3	" Full	" Partial	Coast Apogee (C2AP):	3.6
Listed Mass: (g)	75.3	" Did not deploy		Apogee to Eject (AP2E):	1.5
Date of Construction:	9/19/2014	Parachute Descent		Ejection Alt. (EALt):	347
Recommended Motors:		" Stable Descent	" Tangled lines	Descent Speed (dESc):	39
B6-2, C6-3		" Some swaying	" Sprial descent	Flight Duration (durA):	13.3
		Reason for Re	covery Failure	Altimeter Data Ana	lysis
Center Gravity(CG):	33.5 cm	" Damaged Chute		only thing wrong was descent speed	
Center Pressure(CP):		" Tight Upper Bod	y tube	speed measured only altimeter and not	
Building Notes		" Improper setup		whole rocket	
one of our fins broke when we were		" Chute Separated			
building.		" Motor Ejected			
		" Unplanned Separation			
Estimated Cd:		" Other			
Predicted Altitude:		Descent Speed		Prediction vs Actual Analysis	
Prediction	Notes	" Slow	" Average speed	400 vs. 383; 17 feet off	
400 feet		" Very fast	" Ballistic		
		Landing			
		" Soft	" Water		
		" Tree	" Caught on Wire		
Launch Information		" Hard	Crash		
Date:	9/25/2014	" Landed on Building			
Time of Launch:	10:50:00	Recovery		Post Launch Information	
Location:	soccer fields	" Full Recovery	" Lost	Flight Grade	
Rocket Mass(g):	75.3	" Not Recoverable	" Parts lost	" Excellent	
Motor:	C6-5	Distance & Direction from pad:		" Good	
Motor Mass(g):	24.7	20 yards southwest from pad		" Fair	
Altimeter Mass(g):	9.9			" Poor	
Liftoff Mass(g):	109.9	Recovery Notes		"Rocket cannot launch again	
Wind Direction:	none	tied zip-tie wrong, so lost altimeter		Describe any damage to the rocket:	
Wind Speed:	none	-		lost altimeter	
Igniter:	Estes Igniter				
No. of tries to ignite:	2				
Ignition		-			
" Successfull	" Blow Out			Rocket Project Sugg	estions
" Caught on clips	" Motor Failure	Lessons	Learned	Continue to allow C6-5; teac	h kids how
Trajectory		need to learn how to use a zip-tie; launch on a day with no wind equals better		to use a zip-tie	
["] Straight-Up ["] Spinning					
" Corkscrew	"Non-vertical	fast, run and try to catch the rocket to			
" Into the wind	" Unstable	prevent damage			
Launch Notes					
first launch unsuccessful because pink plug was pushed too far into engine. second launch successful					