Rocket Data Sheet and Launch Record					
Rocket Description		Recovery Information		Altimeter Two Data	
Owner:	Lindsey Smith and	Ejection	Occurred	Apogee Altitude:	300 ft.
Rocket Name:	The Beatles	" During Ascent	" At Apogee	Top Speed:	89 mph
Туре:	Model Rockets.US	" After Apogee	" During Descent	Burn Time (burn):	2.2 s
Length: (inches)	22.625 in	" Ejection Failure		Peak Acc (Pacc):	7.5 g
Diameter: (inches)	1.645 in	Parachute Deployment		Avg Acc (Aacc):	1.9 g
Fins:	3	" Full	" Partial	Coast Apogee (C2AP):	2.9 s
Listed Mass: (g)	70.87 g	" Did not deploy		Apogee to Eject (AP2E):	.7 s
Date of Construction:	9/19/2014	Parachute Descent		Eiection Alt. (EALt):	293 Ft
Recommended Motors:		" Stable Descent	" Tangled lines	Descent Speed (dESc):	12 mph
B6-2, C6-3		" Some swaving	" Sprial descent	Flight Duration (durA)	22.2
- ,	-	Reason for Re	covery Failure	Altimeter Data Ana	lvsis
Center Gravity(CG):	15 and 3/8 inches	" Damaged Chute	covery randre	Ejection was pretty close to apogee	
Center Pressure(CP):	15 and 5/6 menes	" Tight Upper Bod	v tube		
Puilding Notes					
Duilding Notes		" Chute Senerated			
There was trouble getting fins to fit had					
to sand some off.		Motor Ejected			
		Unplanned Separation			
Estimated Cd:	0.5	Other			
Predicted Altitude:	400 ft.	Descen	cent Speed Prediction vs Actual Analysis		nalysis
Prediction Notes		" Slow	" Average speed	Our prediction was way off the actual number. I believe the direction and speed of the wind caused the rocket to not go as high. Also, the weight of the rocket initially would cause it to go slower.	
Company predicts 650 ft. the mass of our		" Very fast	" Ballistic		
rockets and their heights shows that our rocket		Lan	ding		
should be somewhere in between the company		" Soft	" Water		
results and those who are similar to us		" Tree	" Caught on Wire		
Launch Information		" Hard	" Crash		
Date:	9/26/2014	" Landed on Building			
Time of Launch:	4th period	Reco	overy	Post Launch Inform	ation
Location:	soccer parking lot	" Full Recovery	" Lost	Flight Grade	
Rocket Mass(g):	81.2	" Not Recoverable	" Parts lost	" Excellent	
Motor:	C6-5	Distance & Direction from pad:		" Good	
Motor Mass(g):	24.9	10 yards south-south east		" Fair	
Altimeter Mass(g):	9.9			" Poor	
Liftoff Mass(g):	116	Recovery Notes		" Rocket cannot launch again	
Wind Direction:	SSE	Landed close to launch site. Parachute had		Describe any damage to the rocket:	
Wind Speed	10 mph	deployment. The rocket landed a little		No damage	
Igniter:	Estes	hard.			
No. of tries to ignite:	1				
Ignition		-			
" Successfull "Blow Out		-		Rocket Project Sugge	estions
" Caught on aling	" Motor Failura	Lessons	Learned	Allow more time in class for	rocket
		Make sure to count down before launching		design. Go over launch procedures more	
"Straight-Up "Spinning				thoroughly.	
Straight-Up	Spinning	-			
Corkscrew	Non-vertical				
into the wind	Unstable				
Launch Notes					
or straight in the air, but nothing was broken					
and it only took one try to ignite it					