	1tookot B	ata Sheet ar	id Launch l		
Rocket Description		Recovery Information		Altimeter Two Data	
Owner:	Sterling S, Ryan K		Occurred	Apogee Altitude:	
Rocket Name:	Batman	" During Ascent	" At Apogee	Top Speed:	
Type:	Sumo	" After Apogee	" During Descent	Burn Time (burn):	
Length: (inches)	39 in	" Ejection Failure		Peak Acc (Pacc):	
Diameter: (inches)	4 in	Parachute Deployment		Avg Acc (Aacc):	
Fins:	4 fins	" Full " Partial		Coast Apogee (C2AP):	
Listed Mass: (g)	907 g	" Did not deploy		Apogee to Eject (AP2E):	
Date of Construction:	Februrary 2014	Parachute Descent		Ejection Alt. (EALt):	
Recommended Motors: (G only)		" Stable Descent	" Tangled lines	Descent Speed (dESc):	
G64W G76G G77R G80T		" Some swaying	" Sprial descent	Flight Duration (durA):	
			covery Failure	Altimeter Data Anal	ysis
Center Gravity(CG):	25 7/8	" Damaged Chute	<u> </u>	Altimeter did not record any d	lata
Center Pressure(CP):	29.5	" Tight Upper Body tube		because the rocket did not reach a hig	
Estimated Cd:	0.33	" Improper setup		enough altitude for a pressure	change
Predicted Altitude:	1000 Ft	" Chute Separated			
Prediction		" Motor Ejected			
Our rocket is the only rocket that has been done		" Unplanned Separation			
with the G64-4W so it is kind of hard to predict		" Other early delay charge		_	
the altitude so we tried to match the cd with the		Descent Speed			
aerotech projected altitude. our mass is also less than the majority of the other rockets so this					
may also play a role in the height of the rocket.		" Slow	" Average speed	_	
		" Very fast " Ballistic Landing			
Launch Inf		" Soft	" Water		
Date:	4/22/2014	" Tree	" Caught on Wire		
Time of Launch:	9:10:00	" Hard	" Crash		
Location:	CHS	" Landed on Building			
Rocket Mass:	1000 g	Recovery		Post Launch Informa	
Motor:	G77-4R	" Full Recovery	" Lost	Rocket Damage	
Motor Mass:	150 g	" Not Recoverable		" No Damage	
Altimeter Mass:	6.7g	Distance & Direction from pad: went about thirty feet to the west		" Scuffed Paint	
Liftoff Mass:	1156.7 g			" Launch Lugs	
Wind Direction:	NNE			" Engine Stuck	
Wind Speed:	8 mi	Recovery Notes		" Fins Damaged	
Igniter:		rocket started well then the delay charge		Describe any damage to the rocke	
No. of tries to ignite:	1	went off before the rocket got off of the rail and melted everything on the inside		the tube bent and the inside of	
Ignition		and spun off thirty feet away		is blackened and the shock cord melter	
" Successfull	" Blow Out	and spain our unity 10			
" Caught on clips	" Motor Failure				
Trajec					
" Straight-Up	"Spinning				
·· Corkscrew	"Non-vertical			Flight Grade	
"Into the wind	"Unstable	Lessons	Learned	" Excellent	
Launch Notes		unsure of what happened to the engine		" Good	
				" Poor	
					tion-
				Rocket Project Sugges I enjoyed the rocket project. I	
				much to say for what should b	
				illucii to say for what should o	o chang