	Flight F	Results	for	Demo	Flights	2014
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_		<u>Flight #1</u>	Flight #2	Flight #3	Flight #4	Flight #5
Owners		Mr D	Mr D	Kelsey Magill,	Sarah Pudenz,	
				Maddie Peters	Kelsi Danner	
Rocket Name		Iowa State	Cracker Jack	Rocky	Tangled	
Rocket Type		Sumo	G-Force	Arcas	Astrobee	
Rocket Mass		1005 g	1033 g	594 g	807 g	
Motor Used		G77-4R	G64-4W	G64-7W	G80-7T	
Estimated Cd		0.38	0.6	0.35	0.675	
Estimated Altitude		825 ft	800 ft	1595 ft	1510 ft	
Apogee Altitude		700 ft	689 ft	1520 ft	1245 ft	
Top Speed		437 mph	126 mph	217 mph	326 mph	
Burn Time	burn	1.7 s	1.8 s	1.7 s	3.6 s	
Peak Acceleration	PAcc	22.8 g	8.1 g	17.1 g	13.8 g	
Avg Accerleration	AAcc	11.7 g	3.1 g	5.7 g	4.1 g	
Coast to Apogee	C2AP	1.8 s	5.2 s	8.2 s	4.7 s	
Apogee to Eject	AP2E	8.1 s	-0.5 s	-0.2 s	-	
Ejection Altitude	EALt	381 ft	654 ft	1516 ft	-	
Descent Speed	dESc	11 mph	9 mph	15 mph	22 mph	
Flight Duration	durA	33.2 s	54.9 s	74.6 s	46 s	
Notes		Altimeter data is	Orange and Blue	Took 2 igniters for	Had a delayed	
		unreliable. Ejection	altimeters were the		launch. Motor ignited	
		happened on the way	same results. Orange	with pushing in the	and rocket went 1	
		up and way more like		safety key to far	foot in air then motor	
		381 ft not 700 ft.	emergency use only	which prevents the	died. Rocket came	
		Times are also	for now. Very windy	circuit when pushing	down and fin fell off	
		messed up. Actual	launch, rocket landed		then engine reignited	
		launch went well	on the school but	Otherwise a normal	and rocket went up	
		except for the early ejection.	recovered	launch and recovery. Video sources	just fine. Heard the	
		ejection.	successfully	worked well. iPad	delay charge pop but rocket did not come	
				will need a little work	apart. Came down	
				but is easy to use.	sideways and landed	
				but is easy to use.	not far from the	
					launch pad. Samsung	
					video worked great	
					for close and was ok	
					for the launch. iPad	
					seems ok but is	
					sideways on import	
					and will not work	
					with PlayMem. Mine	
					will work for far	
					away. Samsungs easy	
					to snapshot	