

Flight Results for Rocket Rally 2014

	Flight #1	Flight #2	Flight #3	Flight #4	Flight #5
Owners	Lauren & Morgan	Dani, Callie & Abby	Sterling & Ryan	Savanna & Jessi	Daric & Johnny
Rocket Name	KISS	SI Ride	Batman	Packers	Tetris
Rocket Type	Arcas	G-Force	Sumo	G-Force	G-Force
Rocket Mass	613 g	1110 g	1000g	1070 g	1054 g
Motor Used	G80-7T	G76-4G	G64-4W/G77-7R	G76-4G	G76-4G
Estimated Cd	0.6	0.288	0.33	0.3	0.35
Estimated Altitude	1800 ft	800 ft	1000 ft	850 ft	830 ft
Apogee Altitude	2002 ft	767 ft		829 ft	
Top Speed	328 mph	135 mph		139 mph	
Burn Time burn	1.42 s	1.4 s		1.4 s	
Peak Acceleration PAcc	12.6 g	14.7 g		13.5 g	
Avg Accerleration AAcc	10.5 g	4.4 g		4.5 g	
Coast to Apogee C2AP	8.4 s	5.3 s		6.2 s	
Apogee to Eject AP2E	-8.3 s	-1.1 s		-3.3 s	
Ejection Altitude EALt	72	706 ft		658 ft	
Descent Speed dESc	0	12 mph		8 mph	
Flight Duration durA	105.9 s	44.6 s		55.3 s	
Notes	New Altimeter 2, arcas altitude record?, what up with the ejection altitude on		Exploded just after launch!!		Crashed, no ejection charge?

	Flight #6	Flight #7	Flight #8	Flight #9	Flight #10
Owners	Casey & Ryan	Colton & Alex	Brittany, Zena & Paige	Brent	Mr D
Rocket Name	Hilton Magic	Beast Mode	Foxy	Taste the Rainbow	Blue Angels
Rocket Type	Arcas	Astrobee	Arcas	Arcas	Homemade
Rocket Mass	618 g	826 g	654 g	1790 g	
Motor Used	G77-7R	G75-7M	G75-7M	G138-T	
Estimate Cd	0.56	0.74	0.7	0.7	
Estimated Altitude	1441 ft	1234 ft	1456 ft	820 ft	
Apogee Altitude	1543 ft		1866 ft		
Top Speed	258 mph		324 mph		
Burn Time burn	1.5 s		3.1 s		
Peak Acceleration PAcc	12.8 g		12.9 g		
Avg Accerleration AAcc	7.8 g		4.9 g		
Coast to Apogee C2AP	7.1 s		7.4 s		
Apogee to Eject AP2E	-1.3 s		-0.85 s		
Ejection Altitude EALt	1470 ft		1849 ft		
Descent Speed dESc	10 mph		7 mph		
Flight Duration durA	104 s		171.4 s		
Notes		Crashed, no ejection		Mr D forgot to turn on altimeter one.	