

Flight Results for Fall 2012 Big Sharky

	Flight #1 - Demo	Flight #2 - Demo	Flight #3	Flight #4	Flight #5
Owners	Mr D	Mr D	Alexx & Nicole	Indy & Ross	Casey & Matt
Rocket Name	Big Sharky	Big Sharky	USS Navy	Chalk-It	Bullet Bill
Rocket Type	ModelRockets.us	ModelRockets.us	ModelRockets.us	ModelRockets.us	ModelRockets.us
Rocket Mass	81.2g	81.2g	86.8g	85.4g	84.3g
Motor Used	C6-5	C6-3	C6-5	C6-5	C6-5
Estimate Altitude	530 ft/162 m	530 ft/162 m			
Estimated Cd	0.5	0.5	0.5	0.5	0.5
Apogee Altitude	369 ft	304 ft	280 ft	366 ft	368 ft
Top Speed	84 mph	87 mph	76 mph	85 mph	84 mph
Burn Time burn	2.2 s	2.0 s	2.1 s	2.3 s	2.2 s
Peak Acceleration PAcc	7.7 m/s/s	13.5 m/s/s	8.9 m/s/s	7.1 m/s/s	9.2 m/s/s
Avg Accerleration AAcc	1.8 m/s/s	2.0 m/s/s	1.7 m/s/s	1.7m/s/s	1.7 m/s/s
Coast to Apogee C2AP	2.9 s	2.6 s	2.8 s	5.0 s	3.2 s
Apogee to Eject AP2E	1.5 s	0.0 s	2.1 s	-0.1 s	2.0 s
Ejection Altitude EAlt	344 ft	258 ft	226 ft	323 ft	321 ft
Descent Speed dESc	10 mph	14 mph	12 mph	12 mph	9 mph
Flight Duration durA	28.8 s	16.5 s	19.3 s	24.7 s	29.3 s
Notes	windy day, with the wind launch angle, not straight up	windy day, launch angle straight, very curved flight	28 degrees	32 degrees	30 degrees

	Flight #6	Flight #7	Flight #8	Flight #9	Flight #10
Owners	Jordan & Christopher	Kristen & Brendon	Bailey & Kelsey	Nicole & Madi	Jon & Seth
Rocket Name	NVDIA	Twizzlers	Bailey & Kelsey's	The Lorax	Army RANGER
Rocket Type	ModelRockets.us	ModelRockets.us	ModelRockets.us	ModelRockets.us	ModelRockets.us
Rocket Mass	98.1g	82.4g	81.6g	84.7g	77.2g
Motor Used	C6-5	C6-5	C6-5	C6-5	C6-5
Estimate Altitude					
Estimated Cd					
Apogee Altitude	376 ft	433 ft	406 ft	352 ft	381 ft
Top Speed	85 mph	99 mph	98 mph	88 mph	88 mph
Burn Time burn	1.9 s	1.9 s	1.9 s	2.2 s	2.3 s
Peak Acceleration PAcc	5.3 m/s/s	6.5 m/s/s	5.4 m/s/s	12.5 m/s/s	9.1 m/s/s
Avg Accerleration AAcc	2.1 m/s/s	2.4 m/s/s	2.4 m/s/s	1.8 m/s/s	1.7 m/s/s
Coast to Apogee C2AP	4.3 s	4.5 s	4.1 s	4.4 s	2.5 s
Apogee to Eject AP2E	-0.3 s	-0.1 s	-0.4 s	-0.2 s	2.5 s
Ejection Altitude EAlt	363 ft	416 ft	393 ft	335 ft	317 ft
Descent Speed dESc	13 mph	10 mph	14 mph	8 mph	12 mph
Flight Duration durA	24.5 s	32.7 s	23.1 s	32.1 s	25.7 s
Notes	26 degrees	3rd place altitude, 28 degrees	36 degrees	26 degrees	43 degrees

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	Flight #11	Flight #12	Flight #13	Flight #14	Flight #15
Owners	Tyler & Jarret	Haley & Elyse	Harrison, Payton & Alex	Justice, Ann & Nick	Amber & Brittany
Rocket Name	Annabear	Be a Star	The Dark Knight Rises	Converse	Neon Flight
Rocket Type	ModelRockets.us	ModelRockets.us	ModelRockets.us	ModelRockets.us	ModelRockets.us
Rocket Mass	82.7g	96.1g	80.8g	84.4g	82.2g
Motor Used	C6-5	C6-5	C6-5	C6-5	C6-5
Estimate Altitude					
Estimated Cd					
Apogee Altitude	429 ft	309 ft	399 ft	402 ft	415 ft
Top Speed	87 mph	86 mph	86 mph	86 mph	86 mph
Burn Time burn	2.4 s	1.9 s	2.3 s	2.2 s	2.3 s
Peak Acceleration PAcc	9.4 m/s/s	9.3 m/s/s	7.6 m/s/s	9.3 m/s/s	7.7 m/s/s
Avg Accerleration AAcc	1.7 m/s/s	2.1 m/s/s	1.8 m/s/s	1.8 m/s/s	1.7 m/s/s
Coast to Apogee C2AP	4.9 s	3.0 s	3.4 s	3.4 s	3.4 s
Apogee to Eject AP2E	-0.2 s	2.1 s	1.6 s	2.0 s	1.9 s
Ejection Altitude EAlt	399 ft	243 ft	355 ft	354 ft	368 ft
Descent Speed dESc	30 mph	13 mph	9 mph	12 mph	8 mph
Flight Duration durA	16.5 s	18.7 s	32.3 s	27.6 s	35.3 s
Notes	Chute did not fully deploy, 45 deg	Bad igniter, 46 deg	46 deg	39 deg	26 deg

	Flight #16	Flight #17	Flight #18	Flight #19	Flight #20
Owners	Lisa & Cassie	Karli & Maggie	Blaise & Jon	Chris & Brandon	Justice, Ann & Nick
Rocket Name	"El Hombre"	Young, Wild and Free	Star crossed lover	Goomba	Converse
Rocket Type	ModelRockets.us	ModelRockets.us	ModelRockets.us	ModelRockets.us	ModelRockets.us
Rocket Mass	88.2g	81.4g	84.4g	83.3g	84.4g
Motor Used	C6-5	C6-5	C6-5	C6-5	C6-5
Estimate Altitude					
Estimated Cd					
Apogee Altitude	379 ft	438 ft	384 ft	380 ft	434 ft
Top Speed	82 mph	90 mph	87 mph	84 mph	88 mph
Burn Time burn	2.2 s	2.3 s	2.2 s	2.2 s	2.3 s
Peak Acceleration PAcc	7.7 m/s/s	8.9 m/s/s	10.4 m/s/s	6.9 m/s/s	7.7 m/s/s
Avg Accerleration AAcc	1.7 m/s/s	1.8 m/s/s	1.8 m/s/s	1.7 m/s/s	1.8 m/s/s
Coast to Apogee C2AP	3.6 s	4.4 s	3.3 s	3.5 s	3.4 s
Apogee to Eject AP2E	1.9 s	-	1.9 s	1.4 s	1.3 s
Ejection Altitude EAlt	310 ft	411 ft	330 ft	349 ft	419 ft
Descent Speed dESc	13 mph	35 mph	32 mph	18 mph	10 mph
Flight Duration durA	24.1 s	14.2 s	14.5 s	20 s	35 s
Notes	26 deg	Record altitude. Parachute did not open but did deploy, 29 deg	lost altimeter, 24 deg	1st try did not come off launch pad, 26 deg	32 deg