

Flight Results for Big Bullet Fall 2016

	FDS	Demo #1	Demo #2	Flight #3	Flight #4	Flight #5
Owners		Matt and Bryce	Bianca and Hannah	Austin n Ashley	Matthan n Spencer	Billy n Ben
Rocket Name		Apple Rocket	The Autumn	The American Spirit	Kim Jong One	Tigges 2016
Rocket Type		ModelRockets.us	ModelRockets.us	ModelRockets.us	ModelRockets.us	ModelRockets.us
Rocket Mass		70 g	66 g	73 g	67 g	68 g
Motor Used		C6-3	C6-5	C6-5	C6-5	C6-5
Estimated Cd						
Estimated Altitude		450 ft	475 ft	430 ft	425 ft	401 ft
Apogee Altitude		441 ft	338 ft	350 ft	422 ft	405 ft
Top Speed		106 mph	90 mph	92 mph	98 mph	95 moh
Burn Time	burn	2.6 s	2.46 s	2.33 s	2.43 s	2.33 s
Peak Acceleration	PAcc	7.7 g	8.9 g	9.0 g	9.1 g	9.6 g
Avg Accerleration	AAcc	2.4 g	1.7 g	1.8 g	1.9 g	1.9 g
Coast to Apogee	C2AP	3.9 s	2.6 s	3.0 s	3.3 s	3.2 s
Apogee to Eject	AP2E	-1.4 s	1.7 s	0.9 s	0.3 s	0.9 s
Ejection Altitude	EALt	417 ft	304 ft	341 ft	420 ft	399 ft
Descent Speed	dESc	10 mph	11 mph	23mph	10 mph	10 mph
Flight Duration	durA	32.7 s	25.2 s	15.9 s	34.1 s	31.4 s
Notes		Perfect flight, early eject keep it from higher	Flight trajectory was into the wind and caused the much lower altitude	Green altimeter, parachute did not deploy, no wind, but not vertical trajectory	Purple altimeter, No wind straight trajectory	Blue altimeter, perfect launch

	FDS	Flight #6	Flight #7	Flight #8	Flight #9	Flight #10
Owners		Olivia n Alex	Alex J n Peyton	Matt n Jared	Nathan n Grant	Tanner n Will
Rocket Name		Green Machine	Scratch n Sniff	Magic Cool-bus	The Watermelon	Molten Flier
Rocket Type		ModelRockets.us	ModelRockets.us	ModelRockets.us	ModelRockets.us	ModelRockets.us
Rocket Mass		71 g	70.9 g	70 g	71.5 g	73 g
Motor Used		C6-5	C6-5	C6-5	C6-5	C6-5
Estimate Cd						
Estimated Altitude		400 ft		350 ft	450 ft	360 ft
Apogee Altitude		347 ft	266 ft	325 ft	246 ft	352 ft
Top Speed		88 mph	93 mph	93 mph	88 mph	88 mph
Burn Time	burn	2.34 s	2.32 s	2.44 s	2.28 s	2.56 s
Peak Acceleration	PAcc	8.9 g	9.3 g	9.1 g	8.7 g	8.5 g
Avg Accerleration	AAcc	1.7 g	1.8 g	1.7 g	1.8 g	1.6 g
Coast to Apogee	C2AP	2.8 s	2.1 s	2.7 s	2.0 s	3.0 s
Apogee to Eject	AP2E	0.9 s	2.2 s	2.2 s	1.8 s	1.7 s
Ejection Altitude	EALt	342 ft	218 ft	267 ft	205 ft	317 ft
Descent Speed	dESc	8 mph	13 mph	10 mph	23 mph	11 mph
Flight Duration	durA	31.6 s	17.3 s	25.2 s	11.9 s	26.7 s
Notes		Orange altimeter, Straight up untl the end then sideways		towards wind, curved gradually sideways	into wind, non-vertical flight, no chute	

	FDS	Flight #11	Flight #12	Flight #13	Flight #14	Flight #15
Owners		Kyle n Joe				
Rocket Name		The H.S.S				
Rocket Type		ModelRockets.us				
Rocket Mass		69 g				
Motor Used		C6-5				
Estimated Cd						
Estimated Altitude		460 ft				
Apogee Altitude		377 ft				
Top Speed		96 mph				
Burn Time	burn	2.34 s				
Peak Acceleration	PAcc	9.8 g				
Avg Accerleration	AAcc	1.9 g				
Coast to Apogee	C2AP	3.2 s				
Apogee to Eject	AP2E	1.4 s				
Ejection Altitude	EALt	354 ft				
Descent Speed	dESc	10 mph				
Flight Duration	durA	29.6 s				
Notes						