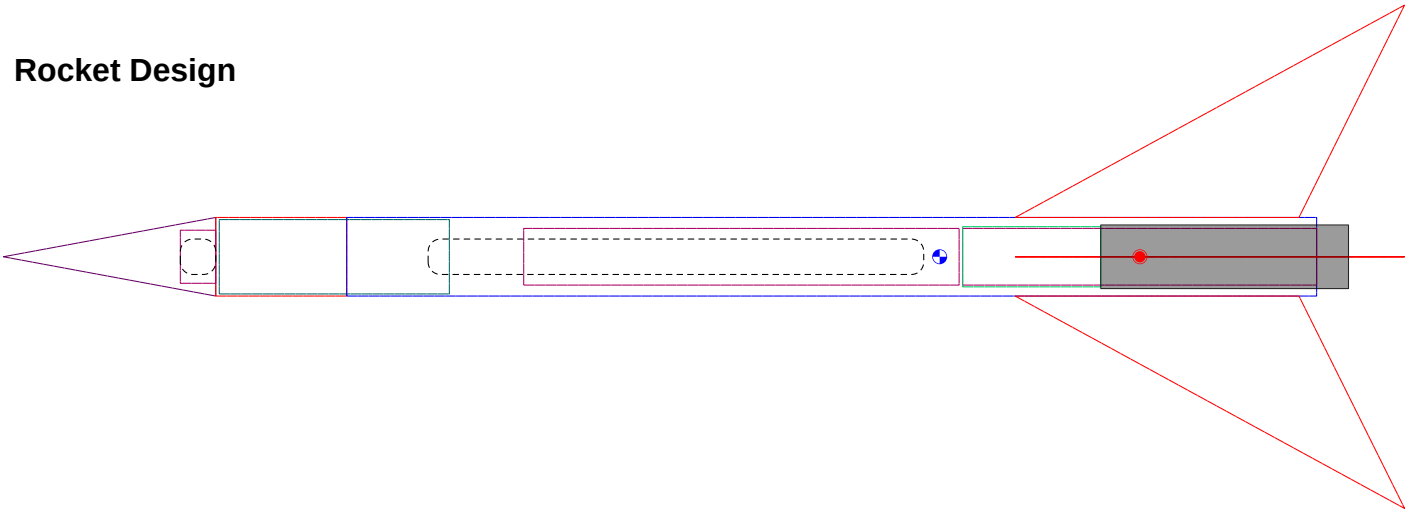
Rocket Design



Papierrakete Adrian 2

Stages: 1

Mass (with motor): 44 g

Stability: 2,55 cal

CG: 26,5 cm

CP: 32,1 cm

C6-5

Altitude	319 m
Flight Time	18 s
Time to Apogee	6,98 s
Velocity off Pad	46,4 m/s
Max Velocity	112 m/s
Velocity at Deployment	N/A
Landing Velocity	40 m/s

Motor	Avg Thrust	Burn Time	Max Thrust	Total Impulse	Thrust to Wt	Propellant Wt	Size
C6	4 N	1,86 s	11,6 N	7,48 Ns	9,27:1	12,5 g	18/70 mm

B4-4

Altitude	241 m
Flight Time	15,2 s
Time to Apogee	6,34 s
Velocity off Pad	43,1 m/s
Max Velocity	96,1 m/s
Velocity at Deployment	N/A
Landing Velocity	40,1 m/s

Motor	Avg Thrust	Burn Time	Max Thrust	Total Impulse	Thrust to Wt	Propellant Wt	Size
B4	4,04 N	1,3 s	11,7 N	5,28 Ns	9,94:1	8,33 g	18/70 mm

A8-3

Altitude	127 m
Flight Time	10,8 s
Time to Apogee	4,83 s
Velocity off Pad	47,6 m/s
Max Velocity	64 m/s
Velocity at Deployment	N/A
Landing Velocity	36,3 m/s

Motor	Avg Thrust	Burn Time	Max Thrust	Total Impulse	Thrust to Wt	Propellant Wt	Size
A8	5,11 N	0,52 s	12 N	2,68 Ns	13,98:1	3,12 g	18/70 mm

Parts Detail

Hauptstufe

	Spitze	Papier (Büro) (0,82 g/cm³)	Konisch	Len: 6cm	Mass: 1g
	Körperrohr der Spitze	Papier (Büro) (0,82 g/cm³)	Dia_{in} 2,19cm Dia_{out} 2,22cm	Len: 3,7cm	Mass: 1g
	Verbindungshülse	Papier (Büro) (0,82 g/cm³)	Dia_{in} 2,07cm Dia_{out} 2,1cm	Len: 6,5cm	Mass: 1g
	Balastkammer mit Knete	Papier (Büro) (0,82 g/cm³)	Dia_{in} 1,47cm Dia_{out} 1,5cm	Len: 1cm	Mass: 0,057g
	Masse		Dia_{out} 1cm		Mass: 5g
	Körperrohr	Papier (Büro) (0,82 g/cm³)	Dia_{in} 2,19cm Dia_{out} 2,22cm	Len: 27,4cm	Mass: 4g
	Innenrohr oben	Karton (0,68 g/cm³)	Dia_{in} 1,597cm Dia_{out} 1,6cm	Len: 12,3cm	Mass: 0,071g
	Innenrohr unten	Karton (0,68 g/cm³)	Dia_{in} 1,597cm Dia_{out} 1,6cm	Len: 10cm	Mass: 0,058g
	Schubring	Papier (Büro) (0,82 g/cm³)	Dia_{in} 1,7cm Dia_{out} 1,7cm	Len: 3,9cm	Mass: 1g
	Schockband mit Gummidämpfer und Ankern	Faden (stark) (0,3 g/m)		Len: 40cm	Mass: 2g
	Finnen (4)	Papier (Büro) (0,82 g/cm³)	Thick: 0,015cm		Mass: 4g