Rocket Data Sheet and Launch Record

Rocket Description	
Owner:	Chester Neal
Rocket Name:	Sprite
Type:	Modelrockets.us
Length: (inches)	22.625
Diameter: (inches)	1.645
Fins:	3
Listed Mass: (g)	70.8738 grams
Date of Construction:	9/19/2014
Recommended Motors:	
B6-2 C6-3	
Center Gravity(CG):	12 1/2"
Center Pressure(CP):	

Building Notes

During the parachute cutting I cut my lines too short. After spray painting my nose cone had become stuck until I loosened it. The mod podge may fall off its starting already.

Estimated Cd:	0.5
Predicted Altitude:	390 Ft

Prediction Notes

Company Precdicts 650 ft for a C6-5

Launch Information	
Date:	9/26/2014
Time of Launch:	4th Period
Location:	Parking lot
Rocket Mass(g):	
Motor:	C6-3
Motor Mass(g):	24.7
Altimeter Mass(g):	9.9
Liftoff Mass(g):	34.6
Wind Direction:	South / Southwest
Wind Speed:	10 mph
Igniter:	Estes
No. of tries to ignite:	

Ignition

¨ Successfull	¨ Blow Out
¨ Caught on clips	¨ Motor Failure

Trajectory

¨ Straight-Up	¨ Spinning
¨ Corkscrew	¨ Non-vertical
¨ Into the wind	¨ Unstable

Launch Notes

The first attempt to see if the igniton was working the light didn't light up. I also didn't face it into the direction of the wind. It was going the same way as the wind

Recovery Information

Ejection Occurred

¨ During Ascent	¨ At Apogee
¨ After Apogee	¨ During Descent
¨ Ejection Failure	

Parachute Deployment

¨ Full	¨ Partial
¨ Did not deploy	

Parachute Descent

¨ Stable Descent	¨ Tangled lines
¨ Some swaying	¨ Sprial descent

Reason for Recovery Failure

- ¨ Damaged Chute
- ¨ Tight Upper Body tube
- ¨ Improper setup
- ¨ Chute Separated
- ¨ Motor Ejected
- ¨ Unplanned Separation
- ¨ Other _____

Descent Speed

¨ Slow	¨ Average speed
¨ Very fast	¨ Ballistic

Landing

¨ Soft	¨ Water
¨ Tree	¨ Caught on Wire
¨ Hard	¨ Crash
¨ Landed on Building	

Recovery

¨ Full Recovery	¨ Lost
¨ Not Recoverable	¨ Parts lost

Distance & Direction from pad:

Went Norht west of the launch pad. It was a small walk from the launch pad.

Recovery Notes

Recovery was good. Everything was still intact, and nothing was broken or damaged.

Lessons Learned

Next time i'm going to try and face it so it goes against the wind.

Altimeter Two Data	
Apogee Altitude:	349 Ft
Top Speed:	100 mph
Burn Time (burn):	2.45 s
Peak Acc (Pacc):	7.3g
Avg Acc (Aacc):	2.3g
Coast Apogee (C2AP):	3.35
Apogee to Eject (AP2E):	-.7 s
Ejection Alt. (EALt):	340 Ft
Descent Speed (dESc):	7 mph
Flight Duration (durA):	33.6 s

Altimeter Data Analysis

I think that the data was mostly correct. The only thing that I would say is questionable is the apogee to eject, because it looked like it popped after not before.

Prediction vs Actual Analysis

I thought my rocket would go higher. Along with that I thought it might go faster also 100 mph seems on the low side

Post Launch Information

Flight Grade

- ¨ Excellent
- ¨ Good
- ¨ Fair
- ¨ Poor
- ¨ Rocket cannot launch again

Describe any damage to the rocket:

No damage was taken

Rocket Project Suggestions

Variety of rockets. I know that before you used different kinds, but I don't know if you ever mixed them together to test how they perform against each other.