Rocket Name: Discovery Type: Modelrockets us Anter Apogee Touring Descent Burn Time (burn): 2.2 Diameter: (inches) 1.645 in. Fins: 3 Tisted Mass: (g) 708.7 g Date of Construction: 9/1/2013-9/27/201 Recommended Motors: (C only) 25.5 cm from top C6-3, C6-5 Seaso for Recovery Failure Center Crassing: (Cf): 25.5 cm from top Center Gravity(CG): 25.5 cm from top Center Presenter(CP): Tight Upper Body tube Estimated Cd: Tight Upper Body tube Predicted Altitude: 350 Chur Separated 'Motor Secovery Falare Stable Descent Speed 'Stable Descent Speed Slow 'Average speed 'Very fist 'Dation Outh'Si Cataotion: Driving Range Rocket Mass: (g) 79.5 Motor Mass: (g) 79.5 Motor Mass: (g) 11.3 Sudde Speed: 13 mph Ifford Mass: (g) <th colspan="7">Rocket Data Sheet and Launch Record</th>	Rocket Data Sheet and Launch Record						
Owner: Daric Teske/Kylet Ejection Occurred Apogee Altitude: 353 Rocket Name: Discovery Puring Ascent At Apogee Burn Descovery Burn Time (burn): 2.2 Iength: (inches) 2.625 in Figetion Failure Peak Ace (Pace): 10 Diameter: (inches) 1.645 in. Parachute Deployment Nag Ace (Aacc): 1.3 Fini: 3 Full Parachute Deployment Apogee to Eject (A2P2): 4.2 Listed Mass: (g) 70.87 get Did not deploy Apogee to Eject (A2P2): 4.2 Prediction Notes Stable Descent Tangled lines Descent Speed (ICFA): 3.5 Stable Descent Speed Tight Upper Body tube Tight Upper Body tube Descent Speed (ICFA): 4.0 Stable Descent Speed Stable Descent Speed Stable Descent Speed Prediction Notes Prediction Notes Notor Ejected Notor Ejected Notor Ejected Notor Field Recovery Piell R	Rocket Description		Recovery Information		Altimeter Two D	ata	
Rocket Name: Discovery Putting Ascent At Apogee Top Speed: 86 m Type: Modelrocketsus After Apogee During Descent Harn Time (burn): 2.2 Langht: (inches) 1.645 in. Parachute Deployment Avg Acc (Aacc): 1.3 Fins: 3 Full Paratial Coast Apogee (C2AP): 4.2 Listed Mass: (g) 70.87 g Did not deploy Apogee to Eject (AP2E): 0.1 Coast Apogee (C2AP): 4.2 Seen swaying Tangled lines Descent Speed (dFSc): 36 m Center Greavity(CG): 2.5 c m from top Some swaying Sinable Descent Flight Duration (durA): 12.0 Prediction Motes Some swaying Some swaying Some swaying Tangled lines Descent Speed (dFSc): 36 m Center Pressure(CP): Chute Separated Prediction Motes Some swaying Tanding Eather and the parachite deploy at all. Prediction Motes Som "Average speed" Very fast Post Launch Information Date: 10/10/2013 Tree Caught on Wire South west of launch site Not Recovery Note Motor Cected South west of launch site Not Recovery Notes Not Banaged Motori		•	Ejection	Occurred	Apogee Altitude:	353 Ft	
Iength: (inches) 22.625 in. Figletion Failure Peak Acc (Pacc): 10 Diameter: (inches) 1.645 in. Parachute Deployment Avg Acc (Aacc): 1.1 Fins: 3 Full Parachute Decent Avg Acc (Aacc): 1.1 Date of Construction: 9/1/2013-9/27/201 Parachute Descent Tangled lines Ecciton Att (EAL1): 2.25 Center Gravity(CG): 25.5 cm from top Some swaying Sprial descent Flight Duration (durA): 12.0 Predicted Attitude: 350 Tight Upper Body tube Fright Duration (durA): 12.0 Predicted Attitude: 350 Chute Spearated Tight Upper Body tube Predicted Attitude: Avgrage speed Predicted Attitude: 350 Motor Fjeeted Stome Speed Post Launch Information Date: 10/10/2013 Tree Caught on Wire Post Launch Information Date: 10/10/2013 Tree Caught on Wire Not Recovery No Damage Motor Cc+s Soft Water South Speed (EES-S) Not Recovery Notes No Damage No Damage Mind Di	Rocket Name:	Discovery	" During Ascent	" At Apogee	Top Speed:	86 mph	
Diameter: (inches) 1.645 in. Parachute Deployment Avg Acc (Aacc): 1.1 Fins: 3 - - Dial of Construction: 9/1/2013-9/27/201 Cossi Apoges to Eject (AP2E): 0.1 Date of Construction: 9/1/2013-9/27/201 Parachute Descent - Tangled lines Descent Speed (dESc): 36 Recommended Motors: (C only) 25.5 cm from top - Some swaying - Spraid descent Flight Duration (durA): 12, Retire Gravity(CG): 25.5 cm from top - - Some swaying - Spraid descent - Flight Duration (durA): 12, Predicted Altitude: 350 - </td <td>Туре:</td> <td>Modelrockets.us</td> <td>" After Apogee</td> <td>" During Descent</td> <td>Burn Time (burn):</td> <td>2.2 s</td>	Туре:	Modelrockets.us	" After Apogee	" During Descent	Burn Time (burn):	2.2 s	
Fins: 3 - Full - Partial Cost Apogee (C2AP): 4.2 Listed Mass: (g) 70.87 g Did not deploy Apogee to Eject (AT2E): 0.1 Date of Construction: 9/1013-9/27/2013 Stable Descent - Tangled lines Election Alt. (FAL1): 325 Recommended Motors: (C only) 25.5 cm from top - Stable Descent - Tangled lines Election Alt. (FAL1): 325 Center Gravity(CG): 25.5 cm from top - Damaged Chute - Attimeter Data Analysis Everythig looked great except the Estimated Cd: - Improper setup - Chute Separated - Water - Other - Damaged Chute - Other - Doscent Speed - Other - Doscent Speed - Other - Other - Datalign - Soft - Water - Other - Dataget on Building - Not Recovery - Recovery - Not Recovery Notes - Not Recovery Notes - Soft Auget on Building - Not Recovery Notes - Engine Stuck - Fines Damaged Not recovershel - Partis last - Other - Soft Auget on Building - Not Recovery Notes - Engine Stuck	Length: (inches)	22.625 in.	" Ejection Failure		Peak Acc (Pacc):	10.1	
Listed Mass: (g) 0.87 g Date of Construction: 9/1/2013-9/27/201 Parachute Descent Apoget to Eject (APZE): 0.1 C6-3, C5-5 Stable Descent Tangled lines; Descent Speed (BSC): 36 m Center Gravity(CG): 25.5 cm from top; Sindle Descent Tangled lines; Descent Speed (BSC): 36 m Center Gravity(CG): 25.5 cm from top; Chute Separated Prediction Notes Prediction Notes Attimeter Data Analysis Predicted Altitude: 350 Chute Separated Prediction Notes Motor Separated Prediction Notes Seems to be the average height from 2012- 'Unplanned Separation Other Distance & Direction from pad: Soft Water Date: 10/10/2013 'Tree 'Caught on Wire 'South-Southeast 'Not Recoveray 'No Bumage Motor: C6-5 'Nother Failure 'Noter Secure Notes 'South-Southeast 'South-Southeast 'South-Southeast Motor: C6-5 'Nother Failure 'No Bumage 'South-Southeast 'South-Southeast Motor: C6-5 'Nother Failure 'South-Southeast 'South-Southeast 'South-Southeast </td <td>Diameter: (inches)</td> <td>1.645 in.</td> <td colspan="2">Parachute Deployment</td> <td>Avg Acc (Aacc):</td> <td>1.8</td>	Diameter: (inches)	1.645 in.	Parachute Deployment		Avg Acc (Aacc):	1.8	
Date of Construction: 9/1/2013-9/27/201 Parachute Descent Tagled lines Recommended Motors: (C only) 'S shale Descent Tagled lines Descent Speed (IESc): 36 m Construction: 25.5 cm from top 'D managed Chute Pight Daration (dur.A): 12.6 Center Gravity(CG): 25.5 cm from top 'D managed Chute Pight Daration (dur.A): 12.6 Center Gravity(CG): 25.5 cm from top 'D managed Chute Apogee to Eject was way off, as the cone popped way late, and the parac Seris to be the average height from 2012- 'D thus Separated 'M dotor Ejected 'D uplaned Separation 2013's launches 'O thus 'S oft 'Average speed 'D very fast 'Ballistic Date: 10/10/2013 '' Tree 'C caught on Wire '' Soft '' No Recovery Time of Launch: 11:15:00 '' Hard '' Crash '' Soutfer P aint Chiff Mass: (g) 25.1 '' Not Recovery Lost '' Soutfer P aint Motor Tices to ignite: I '' South South-Southeast '' No Recovery Notes '' No Recovery Notes Altimeter Mass: (g) 11.13 '' South South-Southeast '' Launch Lugs<''' Finght Grade	Fins:	3	" Full	" Partial	Coast Apogee (C2AP):	4.2 s	
Recommended Motors: (C only) - Stable Descent Tangled lines Descent Speed (dESc): 36 m C6-3, C6-5 - Stable Descent - Flight Duration (durA): 12.0 Center Gravity(CG): 25.5 cm from top - Descent Speed - Flight Duration (durA): 12.0 Predicted Altitude: 350 - - Tangled lines Everything looked great except the Apoges to Eject was way off, as the cone popped way late, and the parae didt't deploy at all. Fuerything looked great except the Apoges to Eject was way off, as the cone popped way late, and the parae didt't deploy at all. Fuerything looked great except the Apoges to Eject was way off, as the cone popped way late, and the parae didt't deploy at all. Predicted Altitude: 350 - Chute Separation - One popped way late, and the parae didt't deploy at all. Fuerything looked great except the Apoges to Eject was way off, as the cone popped way late, and the parae didt't deploy at all. Fuerything looked great except the Apoges to Eject was way off, as the cone popped way late, and the parae didt't deploy at all. Fuerything looked great except the Apoges to Eject was way off, as the cone popped way late, and the parae didt't deploy at all. Fuerything looked great except the Apoges to Eject was way off, as the cone popped way late, and the parae didt't deploy at all. Time of Launch Information - - Crest	Listed Mass: (g)	70.87 g	["] Did not deploy		Apogee to Eject (AP2E):	-0.1 s	
C6-3, C6-5 * Some swaying * Sprial descent Flight Duration (durA): 12, d Center Gravity(CG): 25,5 cm from top * Damaged Chute Altimeter Data Analysis Center Pressure(CP): * Tight Upper Body tube * Tight Upper Body tube Prediction Notes Predicted Altitude: 350 * Chute Separated Prediction Notes Seems to be the average height from 2012-2013's launches * Motor Ejected * Other Descent Speed Soft * Water * Ballistic Imaged Post Launch Information Date: 10/10/2013 * Tree * Caught on Wire * Not Recovery Motor: C6-5 * Full Recovery * Loaded on Building * No Damage Motor: C6-5 * Full Recovery Notes * Not Recovery Notes * No Damage Altimeter Mass: (g) 111.3 * Not Recovery Notes * Fins Damaged Describe any damage to the rock No of tries to ignite: 1 * Not amage noted * Fins Damaged Describe any damage to the rock None * Straight-Up * Spining * Cooker Mass: (g) * Spining * Exceellent Cond surce, into wind-shouk Maxe inicd if furth			Parachute Descent		Ejection Alt. (EALt):	325 Ft	
Center Gravity(CG): 25.5 cm from top Center Gravity(CG): 25.5 cm from top Center Pressure(CP): Extinated Cd: Estimated Cd: "Improper setup Predicted Altitude: 350 Prediction Notes "Chute Separated Seems to be the average beight from 2012- "Other 2013's launches "Soft Immed Caunch: 11:15:00 Location: Driving Range Notor: C6-5 Motor: C6-5 Motor: C6-5 Motor: Soft Liftoff Mass: (g) 11:13:00 Liftoff Mass: (g) 11:13:00 Vind Direction: South-Southeast Wind Direction: South-Southeast Wind Direction: Spinning "Straight-Up Spinning "Corkerew" "Non-vertical Thot he wind 'Unstable Launch Notes "Non-vertical "Into the wind 'Unstable We needed to pack the parachute of the chue out more whow and why we pack it a certain way. A lot of peopie "Straight-Up Spinning <t< td=""><td colspan="2">Recommended Motors: (C only)</td><td>" Stable Descent</td><td>" Tangled lines</td><td>Descent Speed (dESc):</td><td>36 mph</td></t<>	Recommended Motors: (C only)		" Stable Descent	" Tangled lines	Descent Speed (dESc):	36 mph	
Center Gravity(CG): 25.5 cm from top Center Pressure(CP): • Damaged Chute • Boy out a stage accept the cone popped way late, and the parae didn't deploy at all. Predicted Altitude: 350 • Chute Separated • Damaged Chute Predicted Altitude: 350 • Chute Separated • Damaged Chute Predicted Altitude: 350 • Chute Separated • Damaged Chute Predicted Altitude: 350 • Chute Separation • Other 2013's launches • Motor Fjected • Dascent Speed • Other Date: 10/10/2013 • Tree • Caught on Wire • Caught on Wire Time of Launch: 11:15:00 • Caught on Wire • Caught on Wire • Not Recovery • Lost Motor: C 6-5 • Full Recovery • Lost Rocket Damage • No Damage Altimeter Mass: 6.7 Distance & Direction from pad: • South-South-asst • Non Parage • South-South-asst Wind Speed: 13 mph Recovery Notes • Tians Damaged • South-South-asst • Fins Damaged Vind Mire: • Blow Out • Successfull • Blow Out • Estes • Non-vertical No.	C6-3, C6-5		" Some swaying	" Sprial descent	Flight Duration (durA):	12.6 s	
Control Control (CP) 200 cm (Monop) 200 cm (Monop) Tright Upper Body tube Apoge to Eject was way off, as the cone popped way late, and the parace didn't deploy at all. Prediction Notes Chute Separated Improper setup Idin't deploy at all. Prediction Notes Motor Fjected Unplanned Separation Idin't deploy at all. 2013's launches Other Unplanned Separation Improper setup 2013's launches Soft Other Other Descent Speed Very fast Ballistic Improper setup Date: 10/10/2013 Tree Caught on Wire Caught on Wire Time of Launch: 11:15:00 Hard Crash Post Launch Information Motor: C6-5 Full Recovery Post Launch Information No Damage Motor Mass: (g) 25:1 Not Recovery Notes Scuffed Paint Scuffed Paint Liftoff Mass: (g) 11:1.3 Syards south west of launch site Engles Cuck Fins Damaged Ignition "Stacessfull "Bow Out Spaining Fins Damaged Post Launch Information Successfull "Bow Out Tight Way Speet Spaining			Reason for Recovery Failure				
Center Pressure(CP): Ingrit Opper Body tube cinc popped way late, and the paracial cinc popped way late, and the paracial cinc provided way	Center Gravity(CG):	25.5 cm from top	" Damaged Chute		Apogee to Eject was way off, as the nose cone popped way late, and the parachute		
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