Elevator Rubric

Group name:

Students in group:

Points	Elevator Box Structure	Elevator Box Function	Calibration Graph	
4 BEST	Securely holds all passengers/weights in the elevator box	Elevator has a closable door so passengers can move in and out	Calibration is linear and all floor data points are filled	
3	Passengers are safe but slide around in the box	Elevator is a closed box with no doors	One data point for the graph is missing	
2	One passenger fell out of the elevator box	Elevator has a crumbled structure, but is enclosed	At least one data point is collected from the elevator	
1 WORST	More than one passenger fell out of the box	Elevator has openings where passengers can fall out	No work is done	
Total Points =				

To complete the job successfully, the elevator must meet the following requirements:			
	The elevator box must safely carry 4 passengers: Washington, Roosevelt, Jefferson and Lincoln.		
	The elevator box must be securely attached to the elevator cable. Safety is paramount.		
	The cable must be connected to a servo motor.		
	The elevator must be able to travel up to at least five different floors. Each floor is six inches high.		
	Each floor must be calibrated using the rotary encoder.		
	When in use with the servo motor, the top floor height accuracy must be within 5% of the total		
	building height.		
	The passengers' safety must be verified when they reach the top.		

Notes and Comments: