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Name(s)	Project Number
Julia V. Vaughan	
Project Title	35803
Does Elevation Affect Distance?	
Does Elevation Affect Distance:	\sim \sim
Abstract	
Objectives/Goals	
The purpose of this experiment was to see how different elevations will affect t ball.	ne distance of a thrown
Methods/Materials	\bigcirc
I went to three different elevations. I set up a pitching machine and launched the making a total of fifteen balls thrown. I put place markers where the balls lander distance. I made sure that at each location the pitching machine was set up exactly a set up exactly a set up exactly a set up to the balls and the pitching machine was set up exactly a set up to the balls and the pitching machine was set up exactly a set up to the balls and the pitching machine was set up to the balls and the balls and the pitching machine was set up to the balls and the balls and the balls and the balls are the balls and the balls are the balls and the balls are the ball	regtrials of five balls,
making a total of fifteen balls thrown. I put place markers where the balls lande distance. I made sure that at each location the pitching miching was set to eva	d and recorded the
the machine pitched the balls at the same angle and the same speed. I used a fact	lar gun to verify that the
balls were thrown at the same speed.	2
Results The balls thrown at the higher elevations consistently yent the farthest, and at t	he lowest elevation the ball
went the shortest distance.	the towest elevation the ball
Conclusions/Discussion	
My conclusion is that higher elevations do make talls travel farther distances. T elevations have less air pressure, and thinner air helps make a ball travel farther	This is because higher At lower elevations the
air is thicker, and this thicker air actually works against the ball and pushes on i	t making the ball go
slower.	-
Summary Statement	
This project was conducted to determine if a ball thrown at different elevations	will affect the distance it
travels.	
Help Received	
My father drove to the different elevations and helped set up the pitching machine.	