The purpose of my experiment was to develop a method to predict how mileage changes with tire pressure. My experiment consisted of rolling a car down a ramp from the same height and distance every time and measuring how far it rolled for each tire pressure. Then I drove with my dad down a public road the same distance for the same tire pressures as my first method and measured the mileage, and compared them to the data from rolling the car. I graphed the data for both methods, and found an increase in the mileage with higher tire pressure in both tests with good correlation between rolling distance and mileage. My conclusion is that it is possible to predict changes in mileage from changes in rolling distance.