



**CALIFORNIA STATE SCIENCE FAIR
2015 PROJECT SUMMARY**

Name(s) Luke J. Campos	Project Number 35875
Project Title How Do Underinflated Tires Affect the Difficulty of Riding a Bike?	
<p style="text-align: center;">Abstract</p> <p>Objectives/Goals My objective is to use a Newtons spring scale to measure how tire pressure affects the force required to pull a bike in a straight line.</p> <p>Methods/Materials This science project requires a bike, a volunteer with a bike and steer in a straight line, a Newtons spring scale to measure force, and a person to pull bike in a straight line, 3 large zip ties to attach the Newtons spring scale to bike and a graph to map results. My method consisted of testing the bike being pulled at 40,30,20, and 10 psi.</p> <p>Results My results showed that the lower the tire pressure the more force needed to pull the bike in a straight line. The higher the tire pressure the less force needed to pull the bike in a straight line.</p> <p>Conclusions/Discussion My hypothesis was correct. The tire pressure does make difference in the amount of force needed to pull a bike in a straight line.</p>	
Summary Statement Tire pressure will affect the degree of difficulty in riding a bike.	
Help Received Uncle taught me about the importance of psi. My family participated in experiment.	