



**CALIFORNIA STATE SCIENCE FAIR  
2015 PROJECT SUMMARY**

<b>Name(s)</b> <b>Luke J. Campos</b>	<b>Project Number</b> <b>J1799</b>
<b>Project Title</b> <b>How Do Underinflated Tires Affect the Difficulty of Riding a Bike?</b>	
<div><div><b>Objectives/Goals</b> 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.</div><div><b>Methods/Materials</b> 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 tires 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.</div><div><b>Results</b> 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.</div><div><b>Conclusions/Discussion</b> My hypothesis was correct. The tire pressure does make difference in the amount of force needed to pull a bike in a straight line.</div></div>	
<b>Summary Statement</b> Tire pressure will affect the degree of difficulty in riding a bike.	
<b>Help Received</b> Uncle taught me about the importance of psi. My family participated in experiment.	