



**CALIFORNIA STATE SCIENCE FAIR  
2008 PROJECT SUMMARY**

<b>Name(s)</b> Shreve M. Archer, IV	<b>Project Number</b> <b>J1202</b>
<b>Project Title</b> <b>Does a Go-kart Have a Faster Lap Time with Hard Compound Tires, or Soft Compound Tires?</b>	
<b>Abstract</b> <b>Objectives/Goals</b> To prove my theory that soft tires have a faster average lap-time than hard compound tires on a go-kart on an average go-kart track. <b>Methods/Materials</b> I drove a go-kart for 5 laps on the go-kart track, (being timed by my mechanic) averaged all of the lap times, then recorded them. I did this with both hard and soft tire compounds. We took tires temperatures, track temperatures, and tire pressures also. Also, to prove my result, I tested on two seperate tracks, bu used the exact same methods and materials. <b>Results</b> I found that soft compound tires had a faster lap time than hard compound tires on an average go kart track. <b>Conclusions/Discussion</b> I conclude that soft compound tires have a faster average lap time than hard tires.	
<b>Summary Statement</b> My project is about weather soft compound tires have a faster average lap time than hard compound tires or visa versa on an average go-kart track.	
<b>Help Received</b> My mechanic took pictures of me out on the track and lap timed me.	