CALIFORNIA STATE SCIENCE FAIR 2014 PROJECT SUMMARY

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Name(s)	Project Number
Francis Y. Pan	
	34079
Project Title	
Car Performance	
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Objectives/Goals Abstract	
The goal of my project is to see whether a shorter or longer wheelbase is more	ficient for driving. If cars
can turn efficiently, then it will save time and energy.	
Methods/Materials	de The car could be
remodeled with wheelbases of 18.22, and 26cm. The car was programmed to h	through a pre-made
course using a color sensor. Each wheelbase was tester 1) times for mansuver	bility (timed in seconds)
and turn radius (measured in cm). All wheelbases were the same in weight, and	ran the same program and
Course. Results	
The shorter wheelbase had the best maneuverability, and the mid-length wheel	base had the worst
maneuverability. The turn radius increased with the wheelbase.	
Conclusions/Discussion My conclusion is that wheelbase does have an effect on or performance and the	at a shorter wheelbase
would result in better maneuverability.	at a shorter wheelbase
Summary Statement	
This project tested whether a car's wheelbase effects its maneuverability.	
Help Received	
Dr. Tseng provided research information and feedback.	