



**CALIFORNIA STATE SCIENCE FAIR
2010 PROJECT SUMMARY**

Name(s) David M. Elizondo	Project Number J1305
Project Title One or Two (Eyes): Which Is Best for You?	
Abstract Objectives/Goals My project was an attempt to determine whether one eye or two are more accurate when aiming a paintball gun. My hypothesis was that one eye would be more accurate than two, because people tend to reflexively close one eye when aiming at a target. Methods/Materials Informed consent was obtained from 4 participants, selected by age, gender and paintball experience. Each subject was instructed to fire 25 shots at a standard target 30 feet away, first with one eye open and then with two eyes open. All controlled variables were monitored and kept the same. Results One eye was consistently more accurate than two eyes, and there was an overall increase in accuracy of 11%. Conclusions/Discussion My conclusion is that vision and perception play an important role in aiming accuracy. One eye was clearly more accurate than two.	
Summary Statement My experiment is about the human eye and visual perception in aiming at a target.	
Help Received Mother provided transportation and monitored the experiment's safety protocol.	