



**CALIFORNIA STATE SCIENCE FAIR
2013 PROJECT SUMMARY**

Name(s) Olivia Chang	Project Number J1297
Project Title Do Boys or Girls Have a Faster Physical Reaction?	
Abstract Objectives/Goals The objective is to determine whether boys or girls have a faster physical reaction. Methods/Materials An index card was used to measure the one-inch distance between every subject's hand. A ruler was placed three inches above the subject's hand and dropped at a random time. Where the subject caught the ruler was written down in a logbook that had their name and gender. This procedure was repeated 20 times with ten girls and ten boys. Results Based on where the subject caught it, they were placed into one of three categories for their gender. The categories were fast reaction, average reaction, and slow reaction. Girls had one fast reaction, four average reactions, and five slow reactions. Boys had one fast reaction, three average reactions, and six slow reactions. Conclusions/Discussion Boys and girls have always been separated based on physical abilities, boys being "faster" and "physically stronger." However, girls have a faster physical reaction.	
Summary Statement Analyzing where subjects caught a ruler determined which gender had a faster physical reaction.	
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