



**CALIFORNIA STATE SCIENCE FAIR
2004 PROJECT SUMMARY**

Name(s) Michael T. Chang	Project Number S1502
Project Title Temperature's Effect on the Refraction of Light	
Abstract Objectives/Goals The purpose of this project is to determine the effect of temperature on a liquid's refraction of light. Methods/Materials The experiment measures the change in the index of refraction of a liquid as its temperature changes. Results The results were inconclusive, and no trends could be demonstrated, since the changes in the indexes of refraction over temperature were very small, and hardly measurable. Conclusions/Discussion This suggests that the refraction of light in a liquid is only slightly affected by its temperature in the range used. The experiment could be improved if more precise measuring tools and a wider temperature range were used.	
Summary Statement The project is about finding the effect of temperature on a liquid's refraction of light.	
Help Received Mother helped create poster and provided some test liquids; Father provided a laser pointer and thermometer; Mr. Geluardi, my science teacher, helped improve my procedure.	