

CALIFORNIA STATE SCIENCE FAIR 2015 PROJECT SUMMARY

Name(s)	Project Number
Russell F. Lee	
	35900
Project Title	
The Effects of Eyeglass Temple Width on Vertical and Lateral Peripheral Vision	
Abstract	
The goal of this experiment was to determine the effects of eyeglass temple eyeglass arm and supporting frame) width on vertical and lateral peripheral Methods/Materials	opht part connecting vision.
For this experiment, a 1.5 meter in diameter geodesic dome was constructed (light source) as well as 4 different pairs of glasses of varying temple widths temple width values were 0.25cm, 0.5cm, 0.75cm, and 10cm. Subjects of vanecessary.	In addition a transilluminator were required. Eyeglass arving ages and sexes were
Results	
When tested with no glasses, subjects measured at approximately 93 degrees. Using glasses #2 (1.0cm thick), subjects measured at approximately 80 degrees (0.75cm thick). Using glasses #3 (0.50cm thick), subjects measured at approximately 85 degrees. Using glasses #4, subjects measured at approximately 81 degrees. Using glasses #5 (0.25cm thick), subjects measured at approximately 83 degrees.	
Results showed that when no glasses are used subjects maintain the greatest (93 degrees). As temple width on the eyeglasses increased (0.26cm, 0.50cm, amount of peripheral vision decreased. While this true that eyeglass temple peripheral vision, deviation from the original mean (no glasses) was not very temple width does not severely hinder performance.	amount of peripheral vision , 0.75cm, 1.00cm), the overall width affected subject#s y large- meaning that eyeglass
Summary Statement This project was developed to determine the effects of eyeglass temple width peripheral vision.	h on vertical and lateral
Help Received Mr. Antrim provided research help and project improvements; Parents support dome and project improvements; Judges of Intel ISEF provided useful insight	orted construction of geodesic ht on project improvements.