



**CALIFORNIA STATE SCIENCE FAIR  
2016 PROJECT SUMMARY**

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<b>Project Title</b> Examination of the Most Effective Sunscreen	
<p style="text-align: center;"><b>Abstract</b></p> <p><b>Objectives/Goals</b> The objective of this study is to determine which sunscreen is the most effective.</p> <p><b>Methods/Materials</b> I tested four brands of sunscreen using three testing methods: ultra violet beads, a UV meter and Sun-sensitive paper.</p> <p><b>Results</b> The Ultraviolet beads and UV Meter were not satisfactory testing methods. I then focused my efforts on the sun-sensitive paper and repeated my trials three times for each sunscreen. The sunscreen with the most zinc oxide was the most effective.</p> <p><b>Conclusions/Discussion</b> Repeated trials of sunscreen on sun-sensitive paper proved the sunscreen with the most zinc oxide had the best protection against UV rays. It is concluded that sunscreen with at least 10% of zinc oxide is the most effective.</p>	
<b>Summary Statement</b> I showed that zinc oxide based sunscreens provide the most protection from the sun.	
<b>Help Received</b> None. I researched methods and tested the sunscreens on my own.	