



**CALIFORNIA STATE SCIENCE FAIR  
2002 PROJECT SUMMARY**

<b>Name(s)</b> Karen N. Louth	<b>Project Number</b>  22910
<b>Project Title</b> Fun in the Sun: How Does Sunlight Affect the Protectiveness of Different Sunscreens?	
<p style="text-align: center;"><b>Abstract</b></p> <p><b>Objectives/Goals</b> To determine which brand of SPF 30 sunscreen was the most effective for UV ray protection.</p> <p><b>Methods/Materials</b> I used four brands of SPF 30 sunscreen (Avon, Coppertone, Rite-Aid and Sav-On). I placed a sheet of blue construction paper inside a clear plastic sheet protector divided into four sections. I spread equal amounts of sunscreen on each section and placed the sheet protector in direct sunlight. I repeated the test with a new sheet of blue construction paper each day for several weeks.</p> <p><b>Results</b> The sunscreen that best protected the blue construction paper from fading offered the most protection. I determined that there was a difference in protection in the sunscreens tested.</p> <p><b>Conclusions/Discussion</b> The Avon brand of SPF 30 sunscreen offered the most protection. The Rite-Aid brand of SPF 30 sunscreen offered the least protection.</p>	
<b>Summary Statement</b> There is a difference in the UV protection offered by sunscreens with the same SPF factor.	
<b>Help Received</b> My parents and friends helped me to visually confirm my test results.	