



**CALIFORNIA STATE SCIENCE FAIR  
2015 PROJECT SUMMARY**

<b>Name(s)</b> <b>Larisa M. Assadourian</b>	<b>Project Number</b> <b>J2001</b>
<b>Project Title</b> <b>The Effect of Moisturizers on Skin Moisture Retention</b>	
<p style="text-align: center;"><b>Abstract</b></p> <p><b>Objectives/Goals</b> To find what type of skin moisturizer keeps the skin hydrated the most and why, using Jell-O as a human skin model.</p> <p><b>Methods/Materials</b> Material: &amp;#61609; Moisturizers - Cocoa Butter, Baby Oil, Aruba Aloe, Elite, Petroleum Jelly &amp;#61609; Jell-O (green) &amp;#61609; Graduated cylinder &amp;#61609; Petri dishes (18 of them)</p> <p>Method: 18 petri dishes filled with 60 mL of Jell-O each were prepared to experiment the effect of 5 different moisturizers, as well as no moisturizer, on Jell-O weight and height retention through time (15 days).</p> <p><b>Results</b></p> <ol style="list-style-type: none"><li>1. Petroleum jelly retained 100% of the weight and most of the height.</li><li>2. Baby Oil retained almost 100% of the weight but lost a little height.</li><li>3. Aruba Aloe retained 93% of the weight with some height loss.</li><li>4. Cocoa Butter retained 77% of the weight and 72% of the height.</li><li>5. Elite Citrus Coconut retained 74% of the weight and the height.</li><li>6. Jell-O with no moisturizer retained only 62% of the weight and 37% of the height.</li></ol> <p><b>Conclusions/Discussion</b> Petroleum Jelly has retained moisture in the Jell-O the longest.</p> <p>If I do this experiment again, I would pick darker colored Jell-O, to improve the contrast with the light colored moisturizers. I would also use different types of moisturizers, some in the market with prescription, and one that I will make myself with Petroleum Jelly and Cocoa Butter.</p>	
<b>Summary Statement</b> Finding skin moisturizer and it's ingredient that retains moisture in Jell-O (used as human skin model) the longest.	
<b>Help Received</b> Parents helped prepare the Jell-Os and take pictures.	