



CALIFORNIA STATE SCIENCE FAIR 2015 PROJECT SUMMARY

Name(s) Larisa M. Assadourian	Project Number J2001
Project Title The Effect of Moisturizers on Skin Moisture Retention	
Abstract Objectives/Goals To find what type of skin moisturizer keeps the skin hydrated the most and why, using Jell-O as a human skin model. Methods/Materials Material:  Moisturizers - Cocoa Butter, Baby Oil, Aruba Aloe, Elite, Petroleum Jelly  Jell-O (green)  Graduated cylinder  Petri dishes (18 of them) 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). Results 1. Petroleum jelly retained 100% of the weight and most of the height. 2. Baby Oil retained almost 100% of the weight but lost a little height. 3. Aruba Aloe retained 93% of the weight with some height loss. 4. Cocoa Butter retained 77% of the weight and 72% of the height. 5. Elite Citrus Coconut retained 74% of the weight and the height. 6. Jell-O with no moisturizer retained only 62% of the weight and 37% of the height. Conclusions/Discussion Petroleum Jelly has retained moisture in the Jell-O the longest. 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.	
Summary Statement Finding skin moisturizer and it's ingredient that retains moisture in Jell-O (used as human skin model) the longest.	
Help Received Parents helped prepare the Jell-Os and take pictures.	