

## CALIFORNIA STATE SCIENCE FAIR 2015 PROJECT SUMMARY

Name(s)	Project Number
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	00007
Project Title	
Which Blonde Is Best?	
Objectives/Goals Abstract	
The experiment was to measure the amount of force that hair which has lightened with hydrogen peroxide can withstand before breaking. It was would be able to withstand the least amount of force because bleach per the hair to remove the natural pigment leaving the hair dry and brittle. <b>Methods/Materials</b>	s expected that the bleached hair netrates the outer cuticle layer of
Four groups of hair from the same person were each treated once with e peroxide, leaving one group as a controlled. Each group was then studie using a spring scale for the amount of force that the different strands can	ed under a microscope and tested
<ul> <li><b>Results</b> The bleached group of hair withstood the least amount of force and the most amount of force. It is to be noted that the different between the am the results may be slightly inaccurate. </li> <li><b>Conclusions/Discussion</b> The conclusion is that bleaching hair is the most harmful method of light peroxide is the least harmful. </li> </ul>	nounts of force were so minute that
<b>Summary Statement</b> In out experiment, we lightened hair using hydrogen peroxide, dye, and	bleach to see which method of
lightening left the hair with the most amount of tensile strength.	bleach to see which method of
Help Received	
Our science teacher, Mrs. Van Zyl, allowed us to use a microscope and	spring scale for our experiment.