



**CALIFORNIA STATE SCIENCE FAIR
2012 PROJECT SUMMARY**

Name(s) Sarah A. Ibrahim	Project Number J1716
Project Title Perfumes: Detrimental to the Skin or Not?	
Objectives/Goals The goal of my experiment is to test and compare six different types of perfumes three store bought alcoholic perfumes and three homemade nonalcoholic perfumes to see which is better for the skin.	
Abstract	
Methods/Materials 1.Coconut Lime, Vanillas Berry and Bergamot White Tea essential oils 2.Three jars with lids 3.Water 4.Paper 5.Scissors 6.Black Sharpe 7.Dropper Kit 8.Asmall bottle of almond oil 9.Plastic gloves 10.Twenty-four apples 11.Four large plates 12.Love Rocks, Versace Bright Crystal, and Juicy Couture alcoholic perfumes 13.A small box of Q-tips 14.Blue Tape 15.Small clear cup.	
Results The alcoholic perfumes caused significant changes to the apple skins,especially the Versace Bright Crystal.The apple skins with the Versace Bright Crystal and Juicy Couture perfumes had bruises and brown spots in all three trials. Love Rocks perfumes was the only alcoholic perfume that did not affect the apple skins as much.In Trial 3,it had one spot on the skin. The spot was less than a centimeter.Overall,all three nonalcoholic perfumes did not have noticeable bruises. However, in Trials 1 and 2, the Bergamot White Tea nonalcoholic perfume had one bruise.In all three controls, they did not have any noticeable bruises. The apples stayed the same for one week, with no dryness, bumps, brown spots, or bruises.	
Conclusions/Discussion Overall,the results indicated that the homemade nonalcoholic perfumes did not affect the apple skins. There was no noticeable dryness or bruises on the apple skins.However, in trials one and two, the Bergamot White Tea nonalcoholic perfume had bruisingless than 1cm, but no dryness.On average, all three alcoholic perfumes did have some noticeable dryness and bruises on the apple skins. The apples with the alcoholic perfumes became dry in oneday.Theydeveloped bruises.In trial one,the apple with Versace Bright Crystal,alcoholic perfume had many bruises, brown spots and became soft. Although, the only alcoholic perfume that did not affect the apple skins was Love Rocks perfume. The only trial that had the most brown spots was in trial one. In trial one, there was only one brown spot. The brown spot was less than one centimeter. The apple skins with Juicy Couture alcoholic perfume became dry and had a couple of brown spots. In all three trials,the spots were between one to two centimeters long. The controls had no noticeable damages to the skin. The apples skins stayed the same for one week.	
Summary Statement The purpose of this experiment is to determine what kind of perfumes (alcoholic perfumes or non alcoholic perfumes) are better for the skin.	
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