

CALIFORNIA STATE SCIENCE FAIR 2006 PROJECT SUMMARY

	Project Number	
Gian E. Sonza	J0534	
Project Title Colors to Dye For!		
Abstract		
To separate and identify the dyes in Skittles# using paper chromat Methods/Materials 100 sheets of chromatography paper; One skein of pure virgin wo aluminum foil; One set (four colors, red, yellow, blue, green) of fo of household ammonia; 475 mL of distilled white vinegar; Skittle: beakers; Five 400 mL beakers; Five test tubes (15 x 200 mm); On stirring rod; Five evaporating dishes (75 mL); One gallon of distil Safety gloves; One safety lab coat; Writing Implement such as a p Conclusions/Discussion After performing this science project a number of times, I determing primary Skittle# colors, (Red and Yellow) only had one dye, while Purple, and Orange) had more than one dye. This is because seco combination of the primary colors, thus requiring a number of diffic colors are made up exclusively of one color dye. Due to the boiling process necessary to Candy Chromatography, possible to use chocolate based candies, such as M&M#s#. Althod in this experiment, the chocolate would melt and the color coating impossible to perform such an experiment, in my estimation.	tography. pol, unbleached; 25 square feet of ood coloring (0.3 ounces each); 500 mL es(tm); Scissors; Stapler; Five 100 mL he Ring stand; Five test tube clamps; One lled water; Camera; Safety goggles; pencil; Metric Ruler; Computer. ined that my hypothesis was correct; the le the secondary Skittle# colors, (Green, ondary colors are made up by using a ferent dyes. In contrast, the primary I determined that it would not be bugh some recommend using M&M#s# g would be absorbed, making it	