



**CALIFORNIA STATE SCIENCE FAIR
2013 PROJECT SUMMARY**

Name(s) John Bandek	Project Number J2105
Project Title What Color Is the Candy ?	
Abstract	
Objectives/Goals Problem The purpose of this experiment was to see if different candy companies use the same food dyes to color their candies.	
Methods/Materials Method Label 6 Beakers and the 6 tubes writing initials of the candy color and company. Use the pipette to put 0.5mL of dye extraction solution into each tube. Place each candy inside its beaker and the 0.5mL of extraction from the tubes. Now swirl. Pour the liquid dye into each correct labeled tube. Take the Agarose gel that is solid in the beaker and put it in the microwave for a minute, if doesn't boil put it in for 10 seconds. Place the gel aside, meanwhile you place the gel box into its chamber and making sure its comb is placed. Place the gel in the gel box. Place the TAE so that it will allow you to take out the comb without harming your progress. Place your samples. On a sheet of paper take note of what order the samples are in. Put the samples in 20 micro liters using the micropipette. Place your micropipette's tip inside the well that the comb has created.	
Results Skittles and M&M use the same food dyes, the reds color comes from red 40, the orange dye color comes from yellow 6, the green is made from blue 1, and a yellow but not yellow 6 something smaller than yellow 6.	
Summary Statement to see if different candy companies use the same food dyes to color their candies.	
Help Received Mrs. Gevorkian my science teacher	