

## Science Team

### Project 2



**Outstanding  
Award**  
SEFMD 2009-10

**Title:** The effects of different human hair types  
with two different hair dyes

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**Grade Level:** 11<sup>th</sup> Grade

**Design Team Membership:** Science Design Team

**IT/STEM Tools Used:**

**Project Overview:** Using a colorimeter, we determined the concentration of a solution by analyzing its color intensity. To perform this project, we needed two different types of human hair and two different types of hair dye. One of the hair types is used mostly by people of color or African descent. The other hair type is mainly used by Caucasians or people of European descent. We also used two types of hair dye products: one that is commonly used by people of color or African descent, and one that is used mostly by people of European descent or Caucasian. We determined how much of each hair dye absorbs in the different hair types as well as how the time frame effects the process of coloring the hair.