

ESPC 2017 - Regina (Saskatchewan)



Jay Botham

The Effect of Hair Dye on Hair Strength

Défi: Santé

Catégorie: Junior

Région: Greater Vancouver

Ville: Vancouver, BC

École: Prince of Wales Secondary

Sommaire: In this experiment, I compared the tensile strength of un-dyed hair to hair dyed with different dyes, including ammonia-based and ammonia-free dyes. I found that ammonia-free dyes caused an average of a 17.4% reduction in tensile strength and ammonia-based dyes caused an average of 35.7% reduction in tensile strength, supporting my hypothesis that ammonia-based dyes cause significantly more weakening of hair than ammonia-free dyes.

Biographie

Jay Botham is 13 years old and is in grade 8 at Prince of Wales Mini School in Vancouver, BC. Outside of school, Jay is very active in activities including musical theatre, dance, guitar and singing. Jay also enjoys camping, traveling and hanging out with friends. Jay initially did this project to satisfy the requirements of her school science program. She did a significant amount of background research on hair dyes and the structure of hair. From her research, she designed her own project to test the tensile strength of hair dyed with different types of dye. Jay is very excited to be traveling to Regina for CWSF.

Prix

Valeur

Prix d'excellence - Junior - Médaille d'argent Commanditaire: Sciences jeunesse Canada	
Bourse d'études de Western University Médaille d'argent - Bourse d'admission de 2 000 \$ Commanditaire: Université Western	2 000,00 \$
Total	2 000,00 \$