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| Nomo(s)  | Project Number                |
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|  | A Project Number              |
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|  | 31019                         |
| Project Title  | $\langle \mathcal{O} \rangle$ |
| Be Bright. Protect from UV Light!  |                               |
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|  | $\sim \sqrt{2}$               |
| Objectives/Goals Abstract  |                               |
| The objective of this experiment is to determine which fabric is the best to we  | at in the summer for the      |
| most UV protection and prevention against skin cancer.   |                               |
| Methods/Materials  |                               |
| silk knit, nylon, and rayon, were used to cover the UV probes under Sirect suf   | Signt. Percentages of UVA     |
| and UVB blockage of the different fabrics were calculated by collecting data r   | fior to each trial (control)  |
| and during each trial (independent variables) in microWatts per square meter   | (mW/m2) .                     |
| Cotton woven had the highest average UV protection from both NV and UV   | B radiation and rayon had     |
| the least. Overall, woven fabrics were more sufficient at protecting and block   | ing UV radiation than the     |
| knit fabrics. Therefore, how stretchy and lightweight a certain fabric is should   | l be considered to determine  |
| which fabric would allow for the most UV protection  |                               |
| My hypothesis was slightly disproved by the data collected. Powester woven,  | expected to be superior to    |
| the other fabrics, followed closely after cotton woken. Heavier and more stret   | ch resistant fabrics block    |
| UV radiation more because it allows for less holes and translacency for light to<br>helps explain permeability of UV radiationsthrough different fabrics and light | o seep through. This study    |
| draw awareness to the importance of wearing the right of thes in the summer a  | and protecting one#s skin     |
| from overexposure to the sun's farmful UV rays.  |                               |
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| Summary Statement  |                               |
| The composition of abrics were tested to determine their effects on UV protect   | ction.                        |
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| Help Received  |                               |
| Mr. Waggle   |                               |
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