



Forensics

The Stars Challenge at Monmouth University 2008



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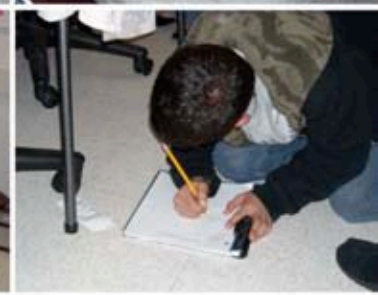
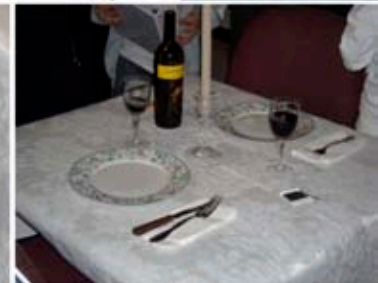
The Stars Challenge

This was a delightful class. The enthusiasm for quenching a forensic thirst was evident. Our budding Anacon crime scene investigators proved their outstanding observation skills in the first session. It was quite impressive to hear the list of details observed in the two second encounter activity. As an extension of this activity, our investigators used their observation skills to map a crime scene. Each pair of investigators worked diligently to measure and mark pieces of evidence on their maps. As I stood back and watched that evening, I logged that image to be a memorable moment...sensing that there would be many more to come.

Each session was an opportunity to work and think like an investigator. Consistently changing the groupings allowed students to adapt to working with someone new. We had the opportunity to learn about each other and from each other as new friendships developed.

To all my Anacon crime scene investigators... may your inquisitive minds lead you to great things in life!

Ms Hui

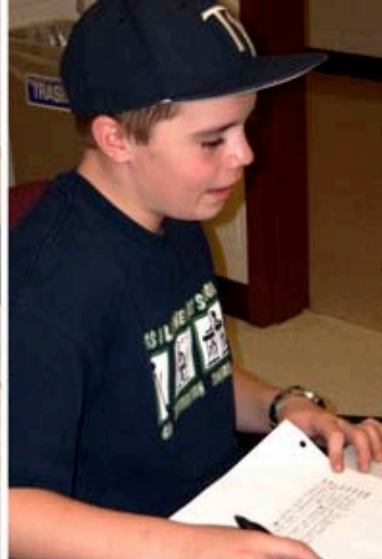


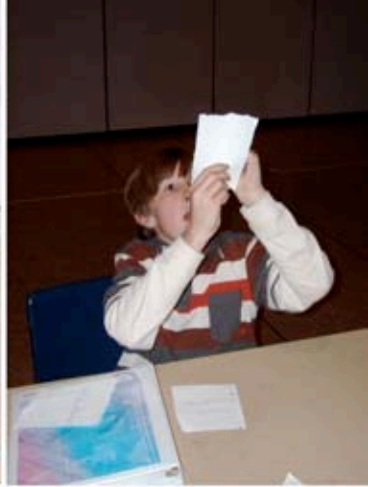
The students tested their powers of observation on a crime scene. Then they learned how to carefully map the scene.





Students examined evidence and a map of a crime scene then attempted to reconstruct what actually happened.





Students tried to find a secret message in a tile pattern. They also tried forging each other's signature so they could learn to detect forgeries.



Drop \$10 million dollars into the mailbox at 12 noon, N.Y.
Drop \$10 million dollars into the mailbox at 12 noon, P.E.
Drop \$10 million dollars into the mailbox at 12 noon, N.Y.
Drop \$10 million dollars into the mailbox at 12 noon, C.Y.
Drop \$10 million dollars into mailbox at noon, M.R.





Students examined dollar bills with magnifying glasses and black light as they searched for evidence.





Students examined NJ drivers licenses under black light to see the special markings that prevent forgeries.



Students made their finger prints using iron filings that stick to the oil from their fingers.



Students then put their fingerprints on a balloon and blew it up. This gave them a magnified picture of their fingerprint that they examined in detail.

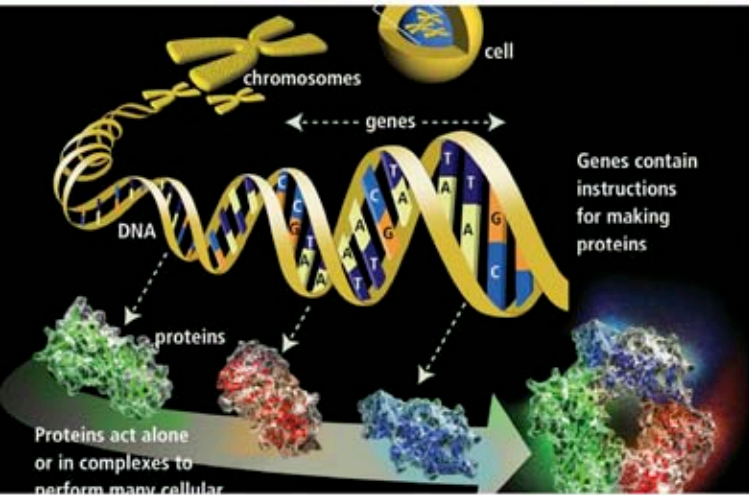




99.9% of DNA sequence is the same in all humans



Adapted from: Thomson, C., and Gallagher, B. (eds) *The Human Genome*, 2001



Students learned that a high technology tool in crime scene analysis is the DNA "fingerprint" frequently left at the crime scene.



Students went into Dr. Michael Palladino's Biotechnology Lab to learn how to extract and analyze DNA.





Mary Kate, Karen, Jose
Red Bank Charter



Samantha
Frank Antonides



Andrew
Holy Cross



Roger
Howell Memorial



Nicole and Weston
Cedar Drive



genome

chromosomes

genes

Tyler and Connor
St. James



Katti, Emma, Natalie, Colleen
Maple Place



Jack
Shrewsbury



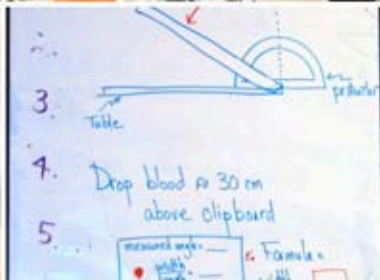
Rajeev
Indian Hill

proteins



cells to stain

proteins





The Stars Challenge at Monmouth University



Made on a Mac