University of Delaware and St. Georges Technical High School: A Partnership for Success

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Goals

• Aid students and teachers in obtaining a better understanding of biology and how it relates to their life/career
• Aid in developing labs for the Biotechnology Career Field
• Instrumentation set-up/preparation for the biotechnology class room
Activities

Conventional Biology

• How Enzymes Work
• DNA model; a collaboration with the HVAC, plumbing and electrical trades

“Real-life” Enzymes

• How does temperature, pH and enzyme concentration affect enzyme activity? Why does this matter?
• How do these enzymes work in the human body?
Activities

**Biotechnology**

- Plant variations: wild-type vs. genetically modified
- Cell culturing techniques
- Set-up of biotech equipment: incubators, water still, microplate reader, etc.
Perspectives

• Gained an appreciation for what students are able to accomplish when given the correct tools, no matter how difficult the task
• Continued appreciation for teachers in the high school setting
• Recognized my own growth in my ability to communicate science
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