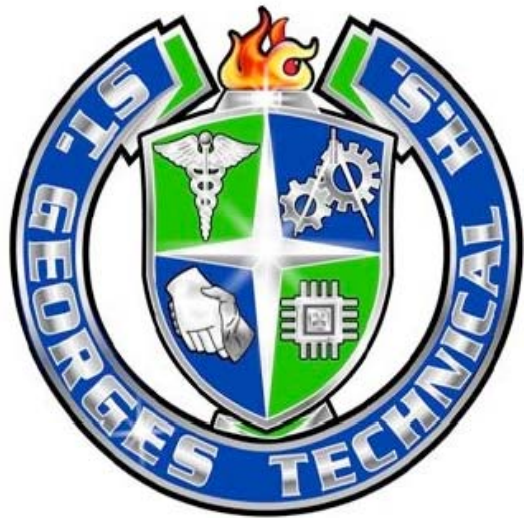


# University of Delaware and St. Georges Technical High School: A Partnership for Success



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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

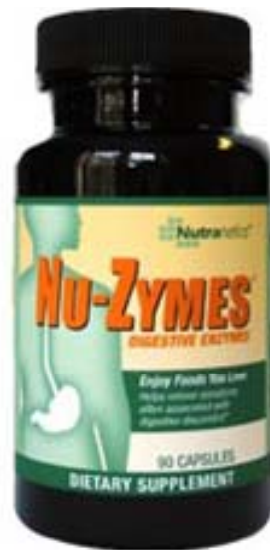


<http://www.strideguides.com/CU/image.aspx?rid=89978&p=19&ix=316&pid=83&prcid=26&ppid=904&pup=true>

# “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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