



Youth Exploring Science

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Youth Exploring Science

- City Science
- YES-2-TECH
- Designing Teens
- Learning Places



City Science

- *City Science* teens focus on science within the context of urban environments through a variety of hands-on, inquiry-based science labs concentrating on both renewable energy and chemistry.







YES-2-TECH

- YES-2-Tech teens use engineering principles and Apple computers to design and construct low-cost greenhouses to be used by community partners. Additionally, they will study and explore how to grow edible plants in St. Louis and will share their process of innovation and discovery.







Designing Teens

- *Designing Teens* learn to work with and manipulate a variety of tools and materials that result in an increased comfort level towards innovation and engineering.







Learning Places

- Learning Places teens explore and evaluate the components necessary to create the physical spaces that will engage and excite younger children about Science, Technology, Engineering and Math (STEM).









YES 2008 Senior Cohort

Out of 32 Seniors:

- **31** are graduating this spring, **1** graduates this summer
- **28** are attending colleges or universities
- **2** are attending specialized vocational training programs (electrician and plumbing)
- Over **\$250,000** in grants and scholarships has been awarded to the cohort



Schools where the YES seniors have been accepted:

- UMSL
- Mizzou
- SEMO
- Westminster
- Harris-Stowe
- Jackson State
- SIUE
- Fisk University
- Alabama A&M
- Xavier University
- Lindenwood University
- Webster University
- University of MO, Rolla
- Jackson State University
- Oakwood College
- Ottawa University
- University of Central MO State
- UMKC
- Chicago State
- Truman State
- Rust University
- Stillman College
- Morehouse College
- Howard University
- Lincoln University
- Forest Park Community College
- Tennessee State University
- William Penn University



Wellston Program

- Work-based skills and inquiry-based earth science curriculum
- 4 days a week in the spring semester
- 50 freshman students,
- After school teaching program at the Wellston elementary school



The results?

- Dramatic decrease in ISS and OSS
- Increased attendance in science AND overall school attendance
- Average increase of at least one letter grade in science
- Out of 50 students, 30 met the criteria (i.e. attendance) and opted to become YES teens this summer



Summer Programming

- The YES program will serve 12,000 visitors this summer, with an increasingly diverse focus
 - Galludet School for the Deaf
 - Missouri School for the Blind
 - Easter Seals
 - Multiple senior groups, including individuals with Alzheimer's
 - Adults and children with mental and physical challenges
 - BRIDGE students (students skipping at least one grade due to high academic performance)