

2015-16 Math & Science Program Executive Summary

Program Description and Participants

The Math & Science Program was established in 1978. The curriculum is hands-on, inquiry-based to engage students in laboratory and field-based learning. This is a three-week summer program that provides educational enrichment for high school students in math and science with technology integration. Students apply math and science skills as they study global issues on biodiversity, water quality, and energy in their community. The program goal is to prepare students for their next mathematics and science courses in school as well as for college readiness with a focus on research skills, critical thinking, problem-solving, project design and presenting sustainable solutions.

2014-15 Student Participants

- ✓ N = 90
 - 8th = 40
 - 9th = 22
 - 10th = 22
 - 11th = 4
- ✓ 44% female and 56% male
- ✓ 78% African-American, 8% white, 7% Hispanic, 2% Asian, and 6% other

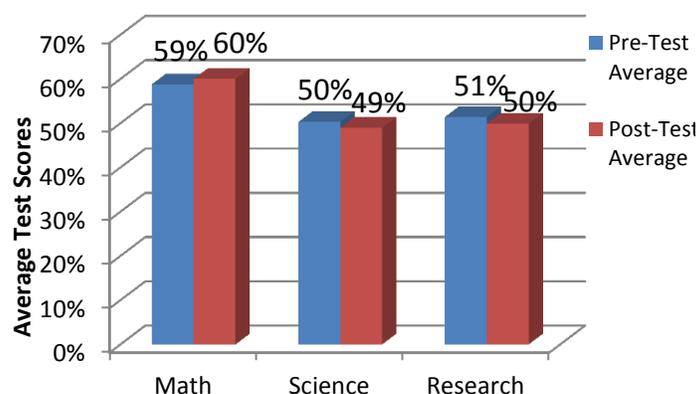
Summary of Goals and Outcomes

- Goal 1: Of all students who attend at least 75% will indicate an increase on the post-test as compared to the pre-test.
 - ✓ Not met. 76% of students showed some gains in one or more areas but not statistically significant.
- Goal 2: 70% of students will indicate knowledge growth in Math & Science concepts as measured by a retrospective survey.
 - ✓ Yes. 73% of students indicated growth in math and science concepts on average.

Evaluation Results Summary

- Attendance (maximum 15 program days)
 - ✓ 6% = 15 days attendance
 - ✓ 67% = 11-14 days attendance
 - ✓ 19% = 6-10 days attendance
 - ✓ 8% = 1-5 days

Pre-test and Post-Test Comparison



- Ratings of Program Impact and Knowledge Growth
 - ✓ 68 = students completed survey.
 - ✓ Majority of students agreed with 11 of 12 statements on program impact.

Recommendations

1. Attendance issues for 2016 students may have contributed to lower performance across content areas. The Lincoln Foundation likely can identify any circumstances that could have contributed to student attendance issues.
2. A more in-depth evaluation of the science and research components of this program may be worthwhile in the near future. While student performance improvements in previous years has been higher than in 2016, science and research results have been relatively flat across the past four years (around half of students have shown gains across the past four years).