

2014-15 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 = 82

7 th = 1	8 th = 48	9 th = 24
10 th = 12	11 th = 4	

- ✓ 45% female and 55% male
- ✓ 74% African-American, 4.5% Asian, 11% white, and 2% Hispanic
- ✓ 56% free/reduced lunch and 44% paid

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.

 - ✓ 84% = students who showed growth on post-test.
- Goal 2: 70% of students will indicate knowledge growth in Math & Science concepts as measured by a retrospective survey.

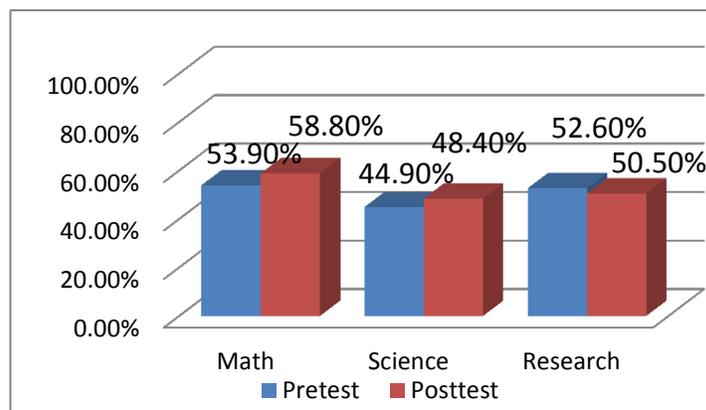
 - ✓ Positive but limited: Data were available for six students. All six students indicated improvement in math, science, and research skills.

Evaluation Results Summary

- Attendance (maximum 14 program days)

 - ✓ 59.6% = 14 days attendance
 - ✓ 14.6% = 11-12 days attendance
 - ✓ 16.8% = 6-10 days attendance
 - ✓ 9% = 1-5 days

Pre-test and Post-Test Comparison



- Ratings of Program Impact and Knowledge Growth

 - ✓ All students who completed the survey (n=6) indicated growth in math, science, and research knowledge and skills.
 - ✓ Furthermore, each of these students agreed with all survey statements on program impact, such as helping to prepare for classes in upcoming school year, understanding connections between math and science, and developing a sense of belonging with other students.

Recommendations

1. **Increase survey completion rates.**