



Sustainable Detrick “Building the Bench”

Washington County Board of Education

**COL Judith D. Robinson
Commander, U.S. Army Garrison**

2 November 2010



Fort Detrick, Maryland

- Joint-Interagency, National Asset
- Top 1% in nation for safety
- Area's largest employer and consumer
- \$2 billion-plus in construction
- Partner and major contributor throughout many communities
- Highly skilled workforce
- Culture of Sustainability



Unique Educational Needs

- **Advanced Education for Soldiers, Families, and Civilians**
- **Computers**
 - At every job at Fort Detrick
- **Communications**
 - Unique Satellite Communications
- **Engineers**
 - New, advanced, environmentally controlled buildings
- **Scientists**
 - Advanced research in vaccines, bandages, robotics, regeneration
 - And others
- **Program Managers/Labor Force**
 - Every Job has a technical component



Strategic Missions

Medical Research (USAMRMC)

National Strategic Satellite Communications

Defense Medical Logistics

Public Health (National Cancer Institute)

National Interagency Biodefense Research (NIBC)



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Partners in the Community

- Today
 - Leveraging business partnerships
 - Leveraging research partnerships
 - Leveraging educational partnerships

- Always
 - Leader and workforce development
 - Educational programs for all ages
 - Protecting the environment
 - Strengthening regional relationships
 - Strengthening community commitment



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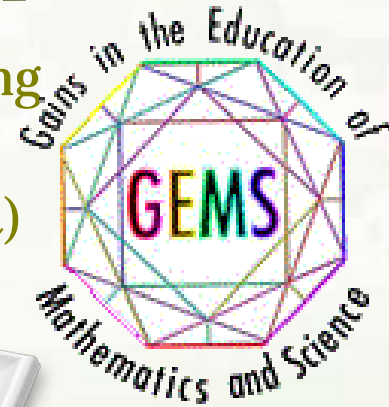




GEMS/YES

Program Background

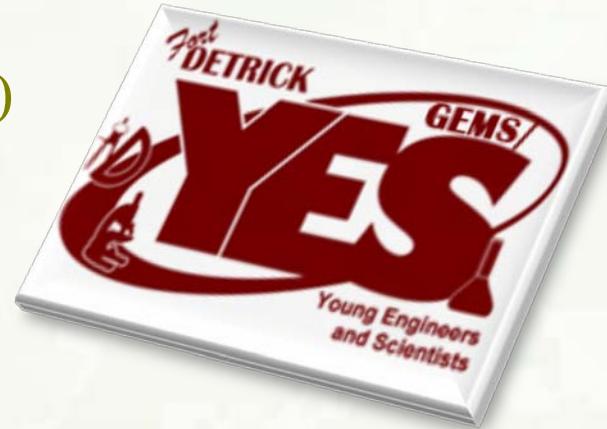
- Gains in the Education of Mathematics and Sciences/Young Engineers and Scientists Program
- 17 years: Walter Reed Army Institute of Research (WRAIR)
- 5 years: Frederick County (2006)
- 1 year: Washington County (2010)



- Organizations Involved:

- Fort Detrick:

- US Army Medical Research and Materiel Command (USAMRMC)
- US Army Garrison
- US Army Medical Research Institute of Infectious Diseases (USAMRIID)
- US Army Center for Environmental Health Research (USACHER)
- Walter Reed Army Institute of Research (WRAIR)



- Science Applications International Corporation (SAIC)
- Hood College
- Mount St. Mary's University
- Fort Detrick Alliance
- Frederick County Public Schools
- Washington County Public Schools- joined 2010



Environmental
5th & 6th
Graders



Beginning
GEMS/YES I
6TH & 7TH



Intermediate
GEMS/YES
7TH & 8TH



Battlebots
7TH & 8TH



Advanced
GEMS/YES III
8TH & 9TH



Teaching
Combination
Advanced + Robotics
10th & 11th



Robotics
8TH & 9TH



Near-Peer
MENTOR
12TH-College



Ft. Detrick
INTERNSHIP

Program Progression





Washington County Participating Schools Statistics



Total of 150 Student Interns out of 167

Total of 9 Near-Peer Mentors

- **Washington County**

- E. Russell Hicks.....26 Student Interns
- Northern Middle.....27 Student Interns
- Western Heights.....39 Student Interns
- Springfield Middle.....58 Student Interns

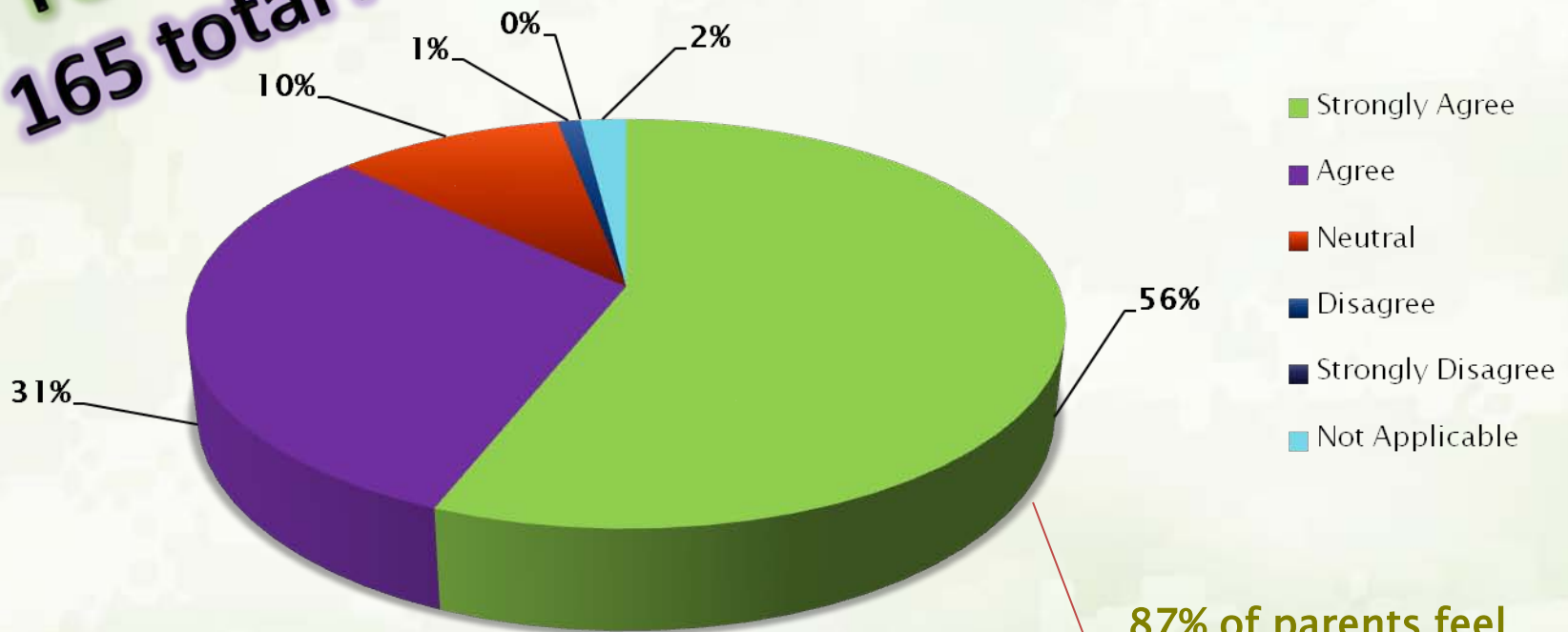




My child will need science for his/her future jobs/ career



Parent Feedback 165 total responses



87% of parents feel their child's future career path will use science

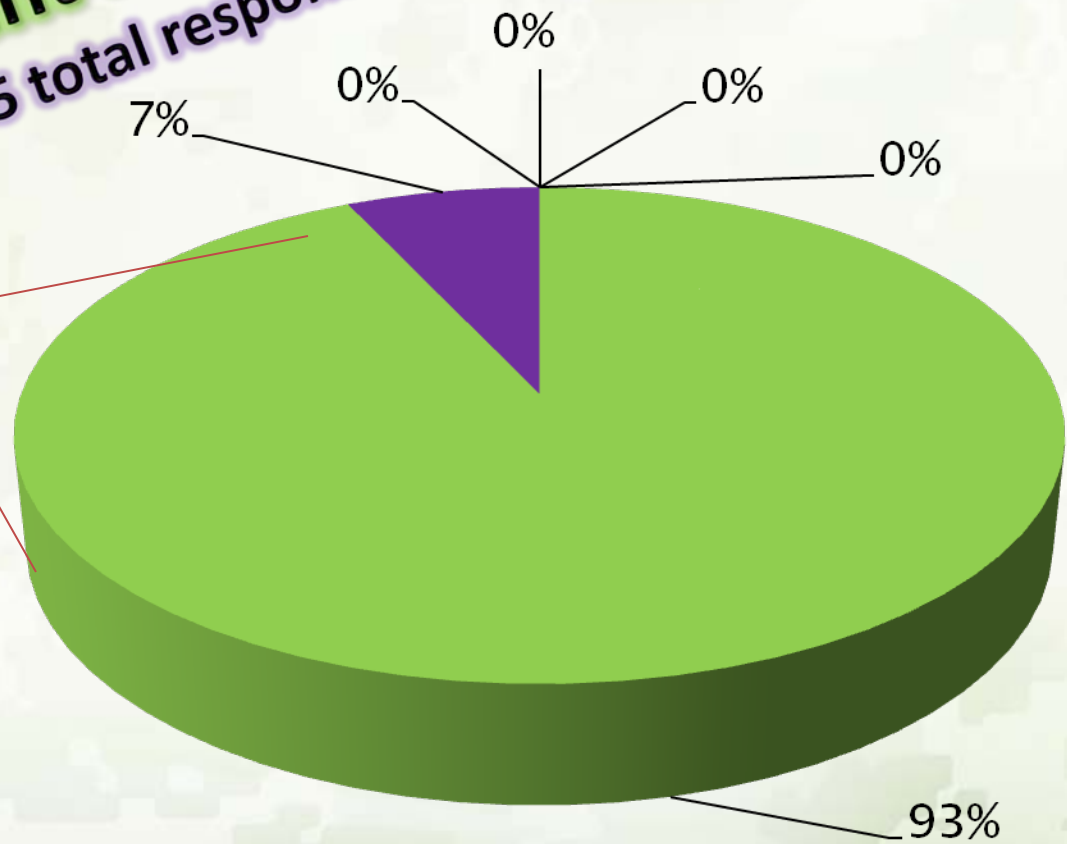


I would recommend this program to others



Parent Feedback 165 total responses

100%
will tell
others!



- Strongly Agree
- Agree
- Neutral
- Disagree
- Strongly Disagree
- Not Applicable

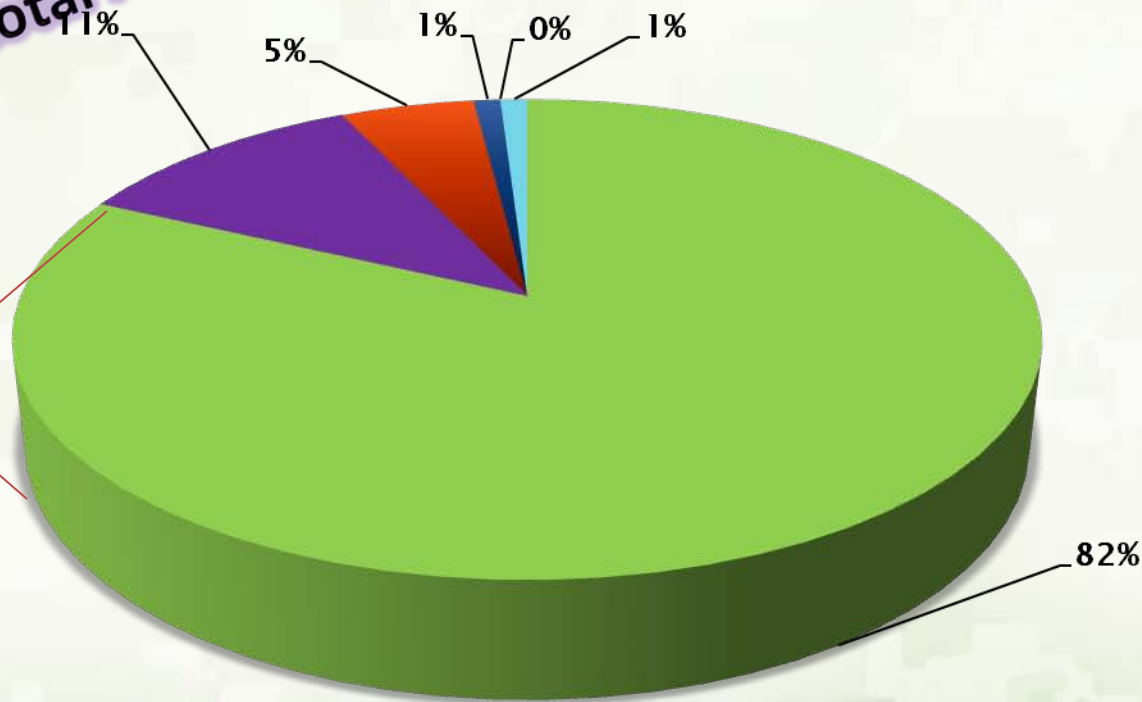


My child has expressed interest in participating in this program in the future



Parent Feedback 165 total responses

93% want to apply in the future



- Strongly Agree
- Agree
- Neutral
- Disagree
- Strongly Disagree
- Not Applicable



My child will need science for his/her future jobs/ career



Student Feedback

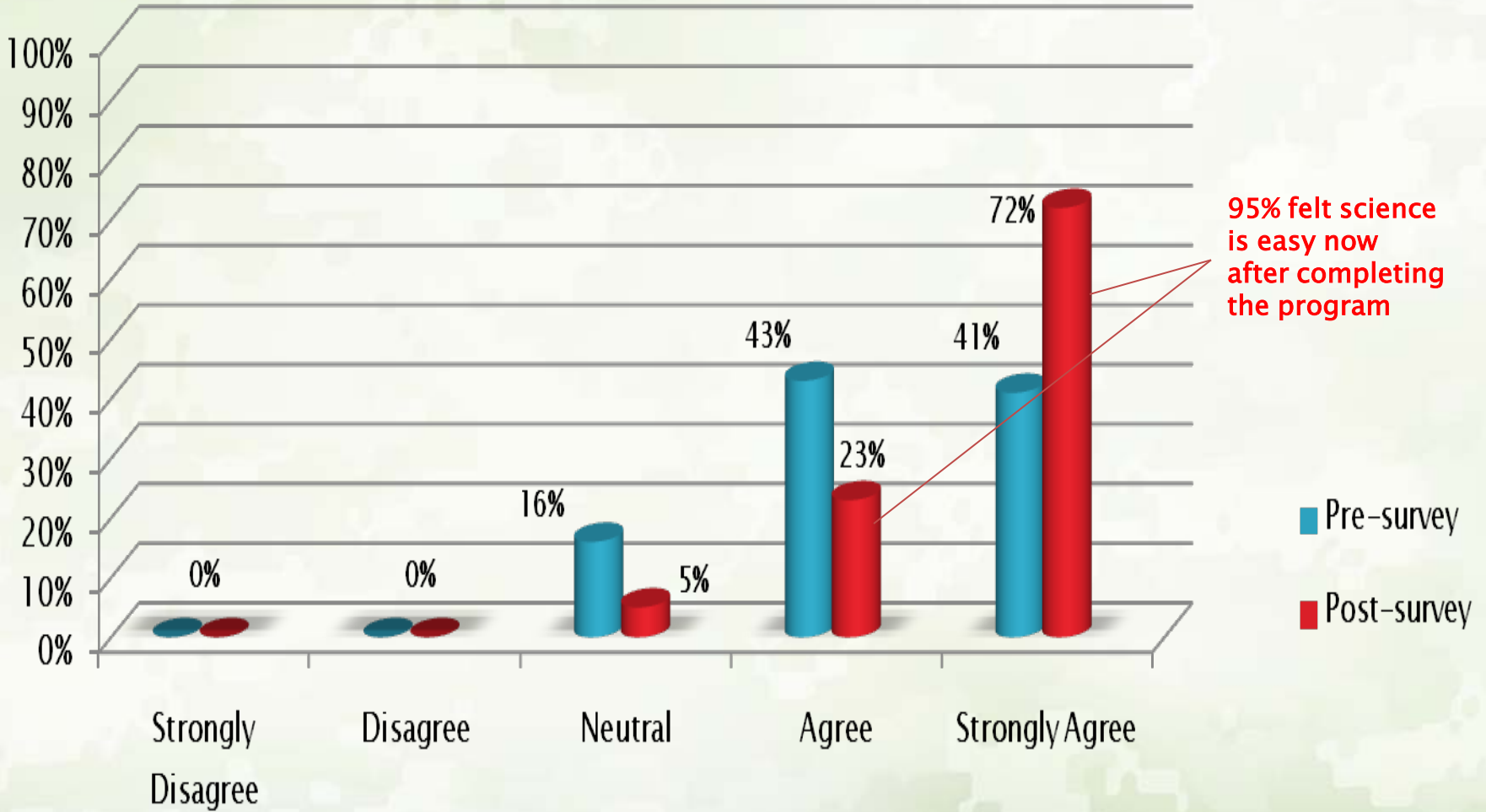
100% total responses



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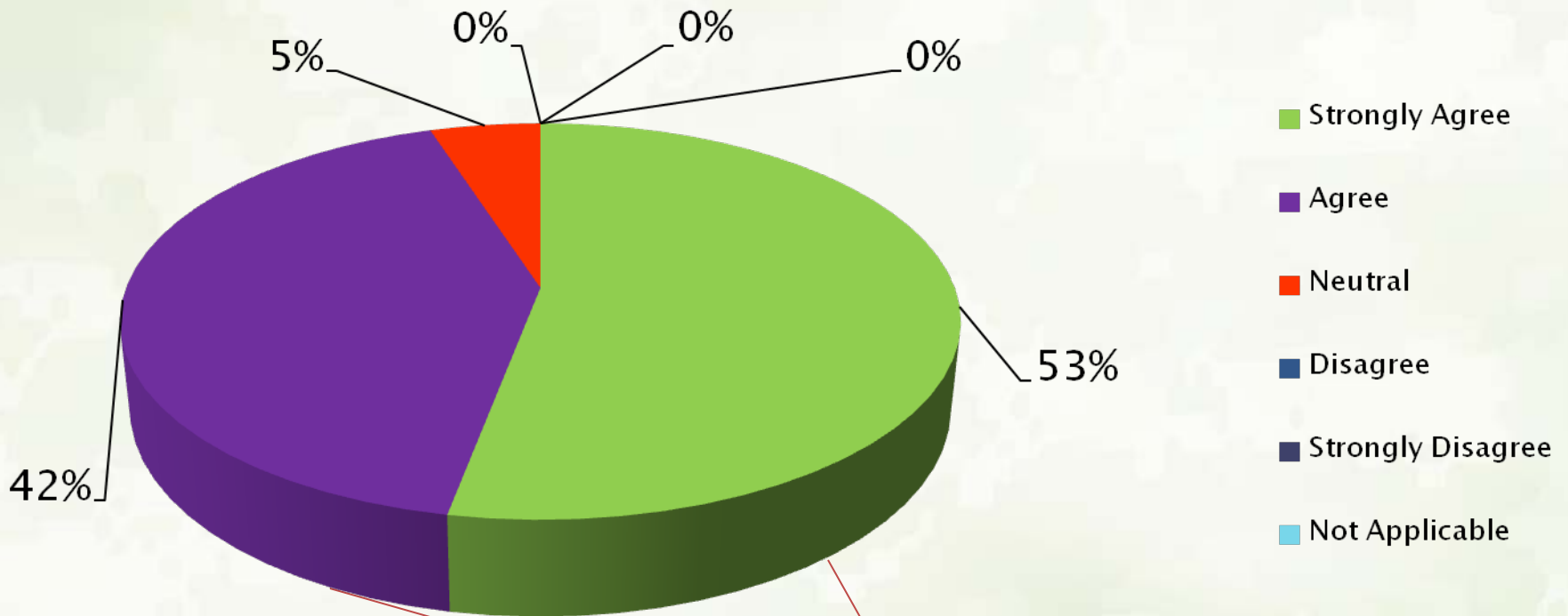


Science is easy for me





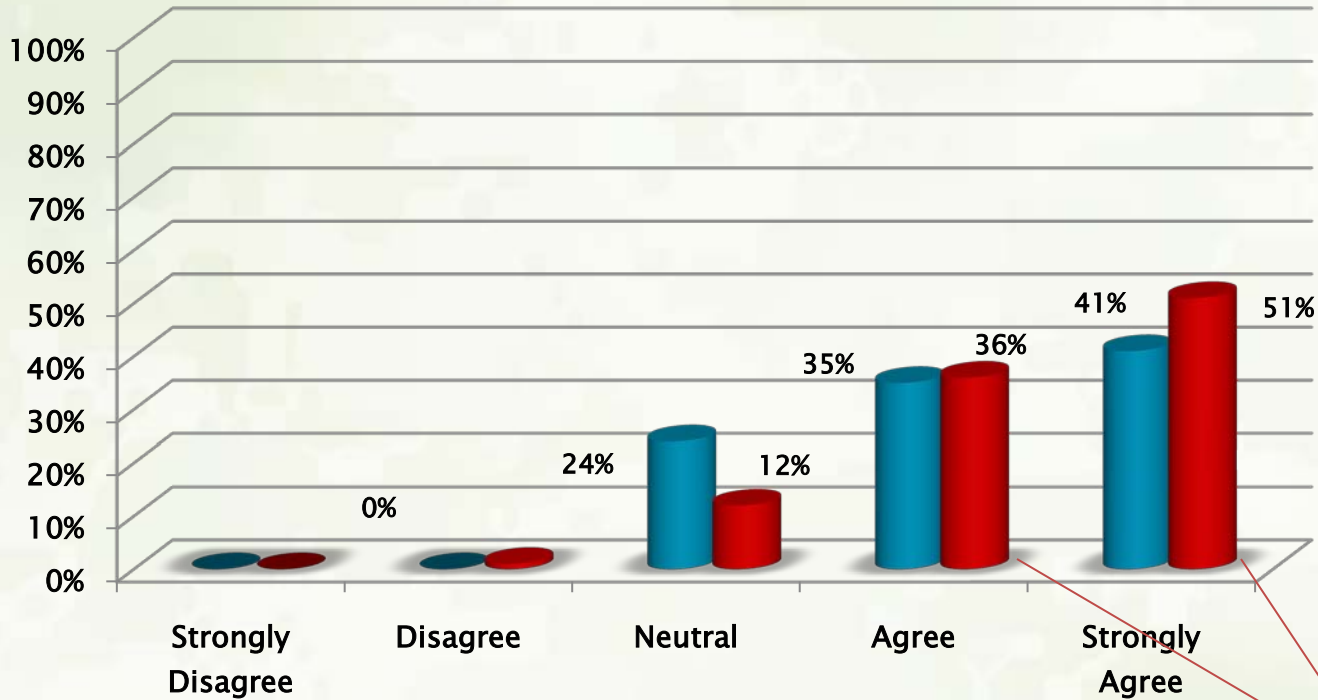
My skills in science have improved



95% believe their skills have improved



My engineering skills have improved



Pre-Survey

I attended the GEMS/YES program to improve my engineering skills

Post-Survey

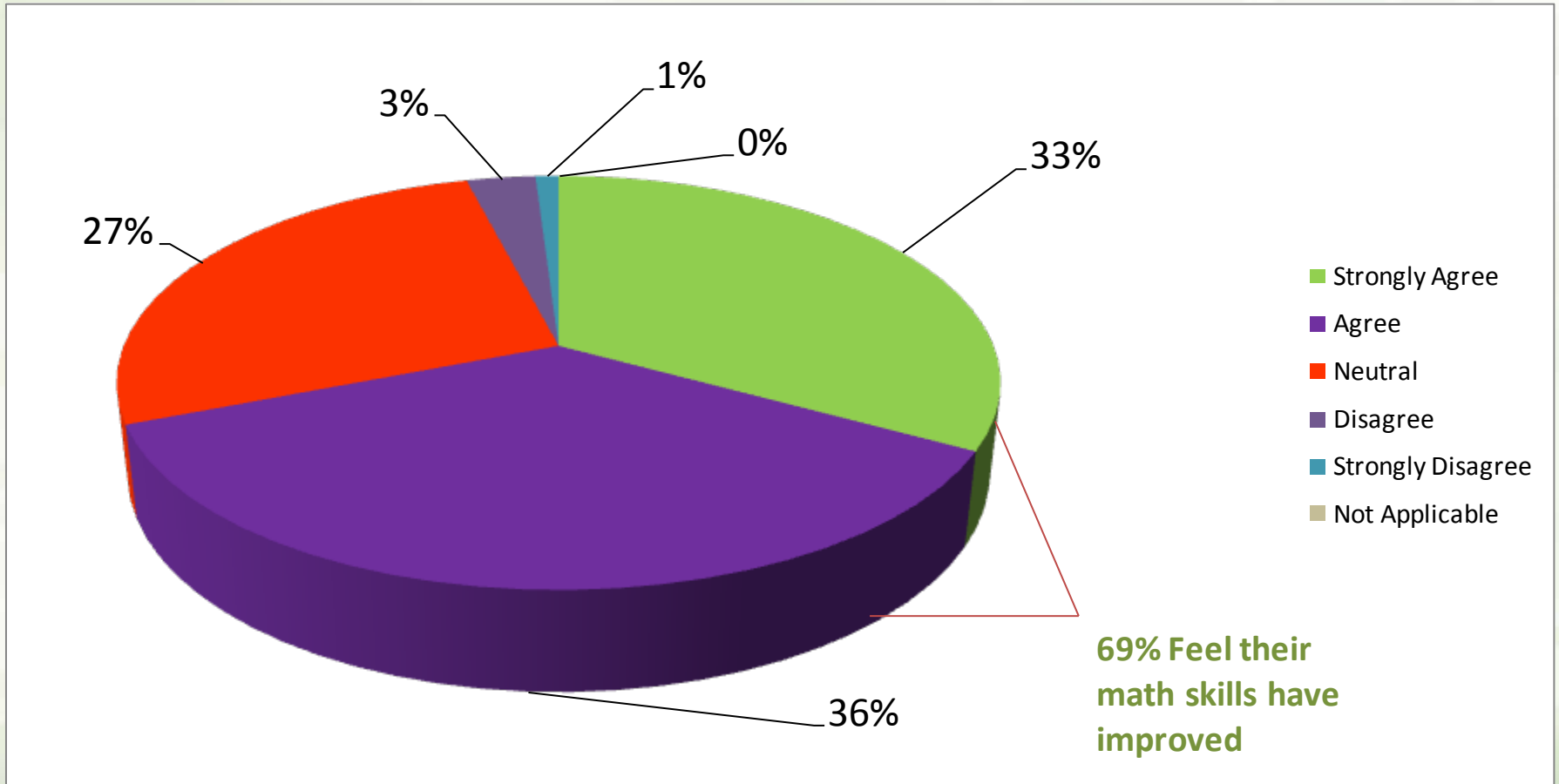
My engineer skills have improved

87% improved their engineering skills after completing the program



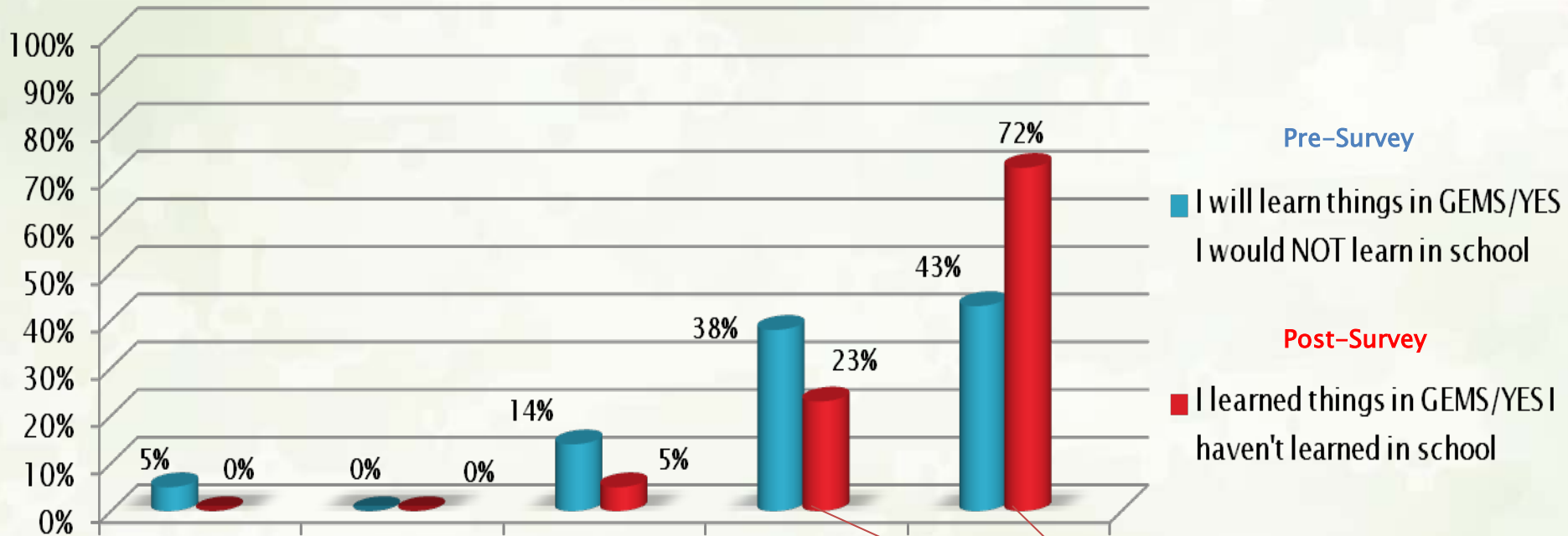
My child will need science for his/her future jobs/ career

My skills in math have improved





Learning in GEMS/YES vs. School



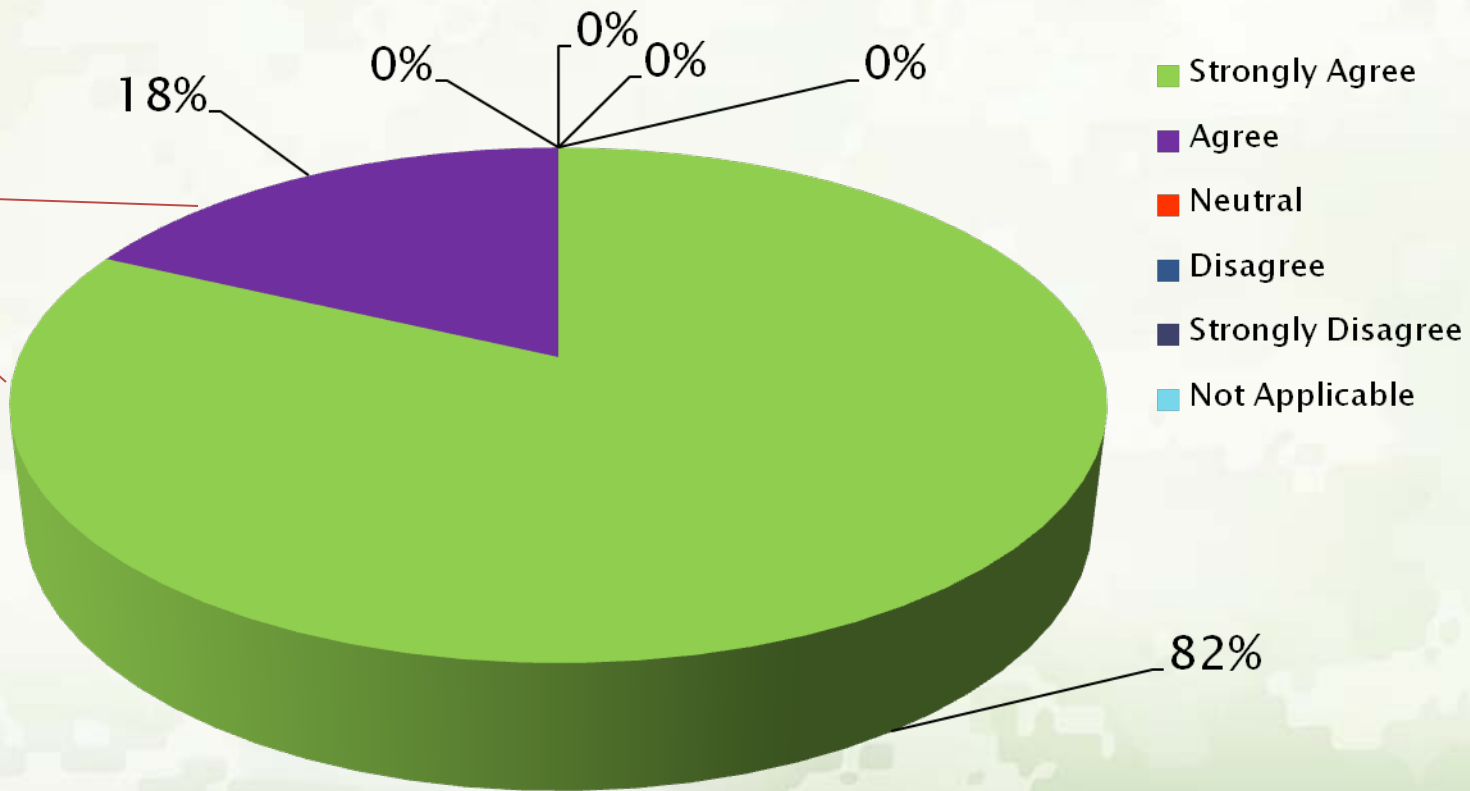
95% learned things in GEMS/YES they would not have learned in school



My skills in science have improved

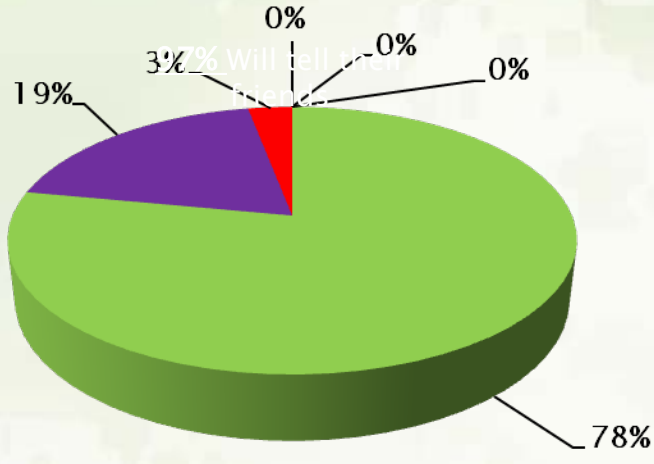


100% of student interns agreed!

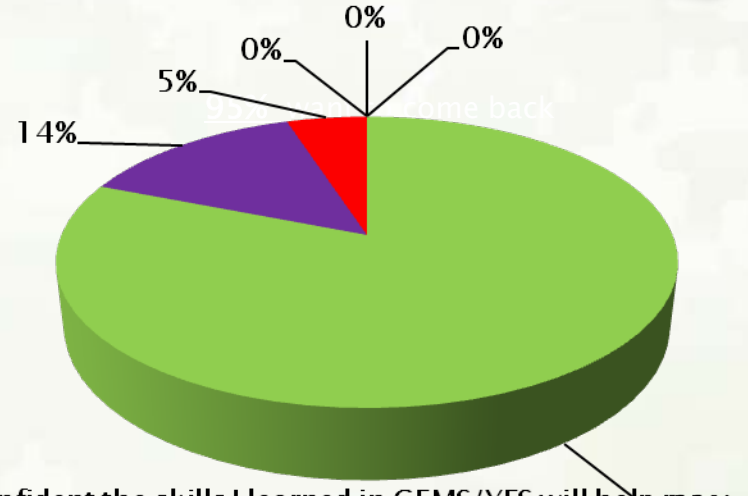




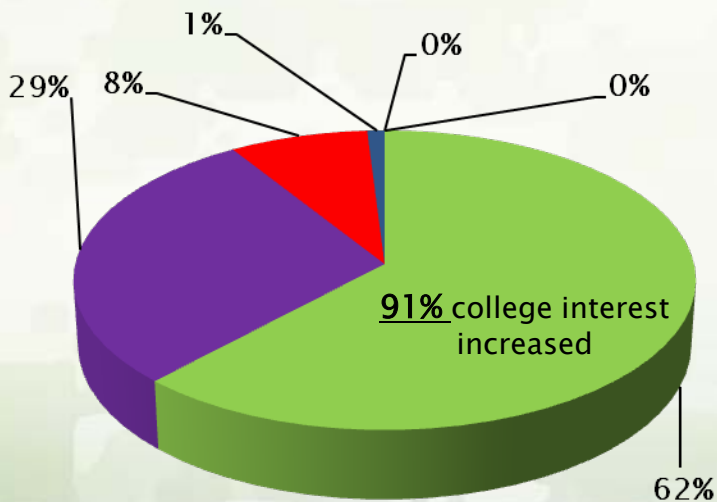
I would recommend the GEMS/YES Program to a friend



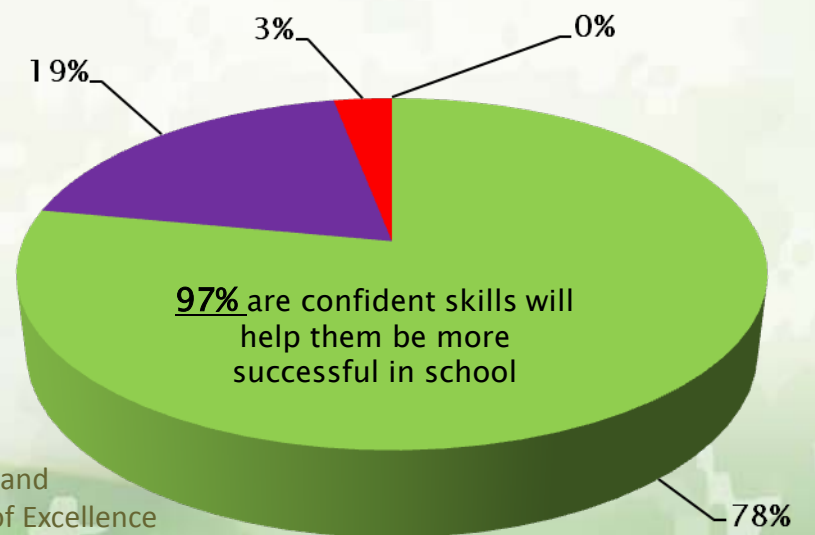
I hope I can come back next year



My desire to go on to college has increased



I am confident the skills I learned in GEMS/YES will help me be more successful in school





Program Outline for 2011



- ▶ Open enrollment
 - ▶ All middle school students in Washington County
- ▶ Potential Near-Peer Mentors
 - ▶ Graduating high school Students
 - ▶ Incorporate culinary school students





Program Outline for 2011



- ▶ Location: Hagerstown Technical High School
- ▶ Enrollment 250-300 students (Funding)
- ▶ Set-up on Fridays
 - ▶ 3-4 hours max
- ▶ Lunch:
 - ▶ TBD (Culinary School Students)
- ▶ Advertisement:
 - ▶ School guidance counselors
 - ▶ Science teachers
- ▶ Program Length:
 - ▶ 4 Weeks Beginning GEMS/YES
 - ▶ 2 weeks Intermediate GEMS/YES



James Calvo Documentary



- a former Near-Peer Mentor
 - Production occurred in July and August of 2010
 - for the U.S. Army for its Education Outreach Programs
 - Army uses this film to recruit students and staff to the program.
- www.jamescalvo.com/yes.html



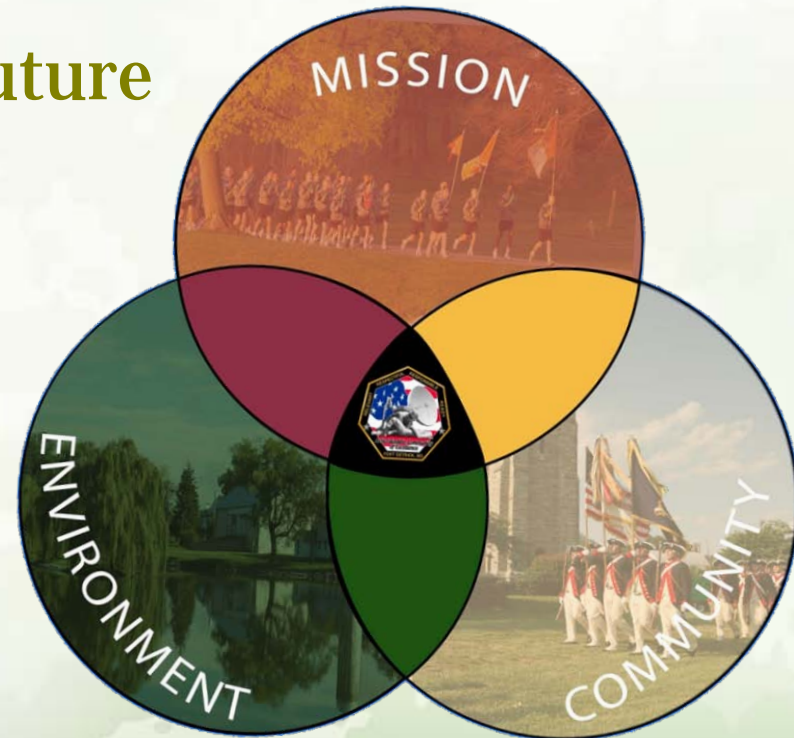


Conclusion

Fort Detrick has developed Strategic partnerships and unique programs to “build the bench to:

Transform for a Sustainable Future

- Relevant
- Respectful
- Responsible
- Ready





Points of Contact/Collaboration



- Fort Detrick Contacts:
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Science Applications International Corporation (SAIC)
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Registration: www.detrick.army.mil/YES





For More Information

- www.detrick.army.mil
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301-619-2018