C-STEM Teacher and Student Support Services

Data Pool

- There was a sample size of 114 participants in the survey ranging from grades 2\textsuperscript{nd}-9\textsuperscript{th} and 11\textsuperscript{th}-12\textsuperscript{th}. These students were enrolled in public or charter schools in Texas or Maryland. It is estimated that well over 3,000 students were directly impacted by the either the C-STEM Challenge or iSTEM Olympiad programs. There were a total of 17 school levels that registered to participate in the 2012 CSTEM Challenge or iSTEM Olympiad.

- Student outcome data is the result of their perceptions towards their participation in the CSTEM program under the facilitation and leadership of teachers that participated in the CSTEM Teacher Training Institute (September 24-28, 2012). The students and their teachers were also invited to participate in six supplemental workshops that took place in 2012 and 2013: October 20\textsuperscript{th}, November 10\textsuperscript{th}, December 8\textsuperscript{th}, January 12\textsuperscript{th}, February 9\textsuperscript{th}, and March 2\textsuperscript{nd}.

- There was 100% urban school participation.

- The CSTEM Challenge and iSTEM Olympiad competition took place April 6, 2013 at the George R. Brown Convention Center in Houston, Texas.
Demographics

Gender

- Male: 35%
- Female: 65%

Ethnicity

- Asian: 2.0%
- Hispanic: 69%
- African American: 20.0%
- Other: 9.0%
# Grade Level Participants

<table>
<thead>
<tr>
<th>Grade</th>
<th>Response Percent</th>
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<tbody>
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<td>2\textsuperscript{nd}</td>
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<tr>
<td>3\textsuperscript{rd}</td>
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<td>4\textsuperscript{th}</td>
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<tr>
<td>12\textsuperscript{th}</td>
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</table>
I plan to go to college and study a field in science.

- Yes: 58%
- No: 42%

I plan to go to college and study a field in engineering.

- Yes: 47%
- No: 53%
I plan to go to college and study a field in math.

Yes: 16%
No: 10%

Someday I want a job that allows me to work with robotics.

Strongly Agree: 67%
Agree: 33%
In middle school I want to take engineering classes.

32% Yes
21% No

In middle school I want to take robotics classes.

39% Yes
23% No

In high school I want to take robotics classes.

14% Yes
8% No
I will work in a STEM field as soon as I graduate from high school.

- Yes: 6%
- No: 3%
I will not go to college after high school because I will receive on the job training.
I like working on projects that connect art and math.

Yes — 64%
No — 36%

I like working on projects that connect art and science.

Yes — 71%
No — 29%
I want to someday work as a geologist.

Yes – 42%

No – 52%
The Green Project developed my critical thinking and problem-solving skills.

Yes – 63%

No – 28%
I prefer using technology to learn.

59% Yes

23% No
I have access to computer technology at home.

- Yes: 67%
- No: 33%
The short film project develops writing and communication skills.
CSTEM-break.ning.com social network is an excellent tool to collaborate with my teammates.

Yes  43%  No  57%
C-STEM works best for me as an after school program.

Yes — 72%

No — 28%
C-STEM works best for me as part of a class during the school day.

Yes – 55%

No – 37%
The number of years I have participated in C-STEM.

- 1 year – 67%
- 2 years – 26%
- 3 years – 3%
- 4 years – 1%
- 5 years – 2%
- 10 years – 1%
The C-STEM program provides me with my only STEM competition experience.

- Yes: 73%
- No: 27%
C-STEM develops students confidence in math and science.

Yes — 61%

No — 23%
The recognition I receive through my participation in CSTEM makes me feel:

- Empowered: 10%
- Confident: 17%
- Like a leader: 11%
- Good: 14%
- Like I have a bright future: 16%
- A proud student: 17%
- Like I am achieving great things: 15%
Someday I want to be a scientist.
Someday I want to be an engineer.

- Yes: 32%
- No: 23%

Someday I want a job that uses math.

- Yes: 34%
- No: 22%
I am on a CSTEM Challenge Team

- GIS Team: 10%
- Creative Writing Team: 22%
- Sculpture Team: 16%
- Mural Team: 21%
- Green Team: 17%
- Robotics Team: 25%
I would like to participate in the CSTEM Alumni program after high school

- Yes: 96%
- No: 4%