Data Pool

- An estimated 220 students Pre-K through 12th grade participated in this survey.
- Student outcome data is the result of their participation in the CSTEM program under the facilitation and leadership of teachers that participated in the CSTEM Teacher Training Institute (October 2011) and six supplemental workshops (November 2011-March 2012)
- The CSTEM Challenge program culminated March 31, 2012 at the George R. Brown Convention Center
School Participation

Urban | Suburban | National | International

99% | 1% | 94% | 6%
Student Perceptions of CSTEM

ELEMENTARY SCHOOL
Elementary Demographics

Gender

Female 62%
Male 38%

Ethnicity

3.4% Caucasian
52.3% Hispanic
36.4% African American
8.0% Other

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CSTEM Elementary School Data
## Elementary Participants

<table>
<thead>
<tr>
<th>Grade</th>
<th>Response Percent</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pre K</td>
<td>1.2%</td>
</tr>
<tr>
<td>1&lt;sup&gt;st&lt;/sup&gt;</td>
<td>2.5%</td>
</tr>
<tr>
<td>2&lt;sup&gt;nd&lt;/sup&gt;</td>
<td>8.6%</td>
</tr>
<tr>
<td>3&lt;sup&gt;rd&lt;/sup&gt;</td>
<td>8.6%</td>
</tr>
<tr>
<td>4&lt;sup&gt;th&lt;/sup&gt;</td>
<td>34.6%</td>
</tr>
<tr>
<td>5&lt;sup&gt;th&lt;/sup&gt;</td>
<td>44.4%</td>
</tr>
</tbody>
</table>
Someday I want to be a scientist.

50.5% Yes

49.4% No

Someday I want to be an engineer.

48.2% Yes

51.8% No
Someday I want a job that uses robotics.

65.40% Yes
31.50% No

Someday I want a job with computers.

Yes 72%
No 28%
Someday I want a job that uses math.

64.30%

In middle school I want to take robotics classes.

68.8%
Yes

31.3%
No

In middle school I want to take computer classes.

62.40%
Yes

37.70%
No
In middle school I want to take engineering classes.

- Yes, 56.30%
- No, 43.80%
I like working on projects that connect art and math.

Yes — 66.6%
No — 33.3%

I like working on projects that connect art and science.

Yes — 73%
No — 27%
I like working on projects to create maps (GIS).

Yes – 54.8%

No – 48.1%
I like working on green projects.

Yes — 67.6%

No — 32.6%
I like working on technology projects

Yes: 66.70%
No: 33.30%
I like working on creative writing projects using computers.
I use the CSTEM-break.ning.com website

- Yes: 67%
- No: 33%
My classmates and I worked on our projects after school.

Yes – 74.1%

No – 26%
My classmates and I worked on our projects during school.
How many CSTEM challenge competitions have you participated in?

- 1 Year: 82.50%
- 2 Year: 16.30%
- 3 Year: 1.30%
Being in CSTEM has taught me how to solve problems.

- Yes 77%
- No 23%
I am confident in using math and science to solve problems because of CSTEM.

Yes — 75.3%  

No — 24.7%
Middle School
Grade Level

Respondents Currently Enrolled in Algebra

<table>
<thead>
<tr>
<th>Grade Level</th>
<th>Enrolled</th>
<th>Not Enrolled</th>
</tr>
</thead>
<tbody>
<tr>
<td>6th</td>
<td>17.60%</td>
<td></td>
</tr>
<tr>
<td>7th</td>
<td>33.80%</td>
<td></td>
</tr>
<tr>
<td>8th</td>
<td>48.60%</td>
<td></td>
</tr>
</tbody>
</table>
Someday I want to be a scientist.
Someday I want to be an engineer.

52.70% Yes
47.30% No

Someday I want a job that uses math.

52.70% Yes
47.30% No
Someday I want a job with robotics.

Someday I want a job with computers.

Yes 50%
No 50%

72.20%
27.80%
In high school I want to take robotics classes.

- Yes: 62.50%
- No: 37.50%

In high school I want to take engineering classes.

- Yes: 43%
- No: 57%
In high school I want to take computer classes.

Yes 68.4%

No 31.5%

I like working on projects that connect art and math.

Yes 65.7%

No 34.2%
I like working on projects that connect art and science.

- Yes: 70.8%
- No: 29.2%

I like working on projects to create maps.

- Yes: 45.8%
- No: 54.3%

I like working on green projects.

- Yes: 62.5%
- No: 63.4%
Yes, 63.40%
No, 36.60%

I like working on robotics projects.

Yes, 70%
No, 30%

I like working on creative writing projects using computers.

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I use the CSTEM-break.ning.com website

Yes 53.6%

No 46.3%

My classmates and I worked on our projects after school.

Yes 74.3%

No 25.7%

My classmates and I worked on our projects during school.

Yes 68.5%

No 31.5%
How many CSTEM challenges have you participated in?

- 5 years: 1.40%
- 4 years: 0.00%
- 3 years: 5.70%
- 2 years: 31.40%
- 1 year: 60%

Being in CSTEM has helped me develop problem-solving skills

- Yes: 73.90%
- No: 26%
Being in CSTEM has taught me how to solve problems.

- 78.6% Yes
- 21.4% No

I am more confident using math and science to solve problems because of CSTEM.

- 68.5% Yes
- 31.4% No
HIGH SCHOOL

Student perceptions of CSTEM 2012
Currently Enrolled In:

- AP Math: 41.20%
- AP Science: 35.30%
- Calculus: 5.90%
- Physics: 8.80%
- IB: 8.80%
Someday I want to be a scientist.

- Yes: 45.3%
- No: 54.7%

Someday I want to be an engineer.

- Yes: 53.7%
- No: 46.3%
Someday I want a job that uses math.

Yes 68.5%
No 31.5%

Someday I want a job with robotics.

Yes 57.7%
No 42.3%

Someday I want a job with computers.

Yes 76.5%
No 23.6%
In college I want to study engineering. 56.60% Yes 43.40% No

In college I want to study science. 51.90% Yes 48.10% No

In college I want to study computer science. 52.80% Yes 47.10% No
I like working on projects that connect art and math.

- Yes, 76.90%
- No, 23.10%

I like working on projects that connect art and science.

- Yes, 73%
- No, 27%
I like working on projects to create maps (GIS).

Yes: 50.90%
No: 49.10%

I like working on green projects.

Yes: 75.40%
No: 24.60%
I like working on robotics projects.

Yes 66%
No 33.9%

I like working with creative writing projects using computers.

Yes 52.8%
No 47.2%

I use the CSTEM-break.ning.com website.

Yes 60.4%
No 39.6%
My classmates and I worked on our projects after school.

- Yes: 88.70%
- No: 11.40%

My classmates and I worked on our projects during school.

- Yes: 79.20%
- No: 20.70%
How many CSTEM challenges have you been in?

- 1 year: 71.70%
- 2 years: 18.90%
- 3 years: 7.50%
- 4 years: 0.00%
- 5 years: 1.90%
Being in CSTEM has developed my problem-solving skills.

- Yes: 78.40%
- No: 21.50%

Being in CSTEM has taught me how to work as a team.

- Yes: 84.90%
- No: 15.10%
I am more confident in using math and science to solve problems as a result of CSTEM.

Yes: 81%
No: 19%