

## Supplemental file—survey

Participant ID \_\_\_\_\_

Demographics

What grade are you in? \_\_\_\_\_

Are you a (circle one):      boy      girl      other

Do you have a disability?

Yes      (please tell us what kind of disability) \_\_\_\_\_ No

What did you like **most** about the robotics program?

What did you like **least** about the programs (or an area you would like to see improved).

Is there anything else that you would like to share about the HB *FIRST*® Robotics program?

<b>Quality of the HB <i>FIRST</i>® experience</b> (adapted from (Melchior, Cohen, Cutter, & Leavitt, 2005))				
Statement	Strongly Agree	Agree	Disagree	Strongly Disagree
Kids in my group made the important decisions, not the adults.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
I had a chance to do lots of different jobs in my group.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
I had real responsibilities in my group.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
I had a chance to be both a designer and a builder	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
I had fun working in the HB <i>FIRST</i> ® group.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
I felt like I really belonged in my group.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

<b>Impacts from the HB <i>FIRST</i>® Experience</b> (adapted from (Melchior, Cohen, Cutter, & Leavitt, 2005))				
Statement	Strongly Agree	Agree	Disagree	Strongly Disagree
HB <i>FIRST</i> ® helped me understand the value of working in a group	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
I gained a better understanding of how math, science and technology are used to solve problems in the real world	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
I gained a sense of self-confidence by being in HB <i>FIRST</i> ®	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
My interest in science and technology greatly increased as a result of being in HB <i>FIRST</i> ®	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
HB <i>FIRST</i> ® helped motivate me to do better in school	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

I gained a better idea of what I wanted to study in school as a result of HB <i>FIRST</i> ®	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
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<b>Skills Gained Through HB <i>FIRST</i>® (adapted from (Melchior, Cohen, Cutter, &amp; Leavitt, 2005))</b>				
Statement	A Lot	Some	Very Little	Not at All
HB <i>FIRST</i> ® helped me weigh different issues and possibilities before making a decision	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
I learned how to listen and respond to other people's suggestions or concerns	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
HB <i>FIRST</i> ® helped me talk with people to get the information I need	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
It taught me to get along with other students, teachers, and adults	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
I learned to work within the rules of a group	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
I learned how to manage my time	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
I learned new ways of thinking or acting from other people	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
HB <i>FIRST</i> ® gave me confidence to work with people that I do not know	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
HB <i>FIRST</i> ® has taught me to stop or decrease conflicts between people	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
I learned how to use computers to analyze information	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
I learnt to use practical math skills, such as graphs and tables	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

Melchior, A., Cohen, F., Cutter, T., & Leavitt, T. (2005). More than robots: An evaluation of the FIRST robotics competition and institutional impacts. In. New Hampshire.