



FACT SHEET: LMC Robotics Workshops

for in-school, after-school, youth and community organizations, and museums

Mindsurfers' mission is to advance science, technology, engineering and math skills for children by providing access to educational, collaborative and engaging robotics experiences.

Mindsurfers' workshops are based on LEGO Mindstorms materials. Our initial offering, Dr. Heartbeat, uses interactive software and robots to guide participants in accomplishing health and nutrition based missions. Our programs provide youth with the opportunity to structure their own experience under the trained guidance of our facilitators – every program and set of outcomes will be unique because of the creativity and curiosity of the participants.

Topic	Details
Program Length and Schedules	<ul style="list-style-type: none"> • 50 minutes per workshop • Sessions should be scheduled consecutively with at least five per location.
Location	<ul style="list-style-type: none"> • We bring the program to you – schools, community centers, museums etc. • An open room with surfaces for laptops and room for the mission table will be needed. • Access to multiple electrical outlets is also necessary.
Participants	<ul style="list-style-type: none"> • Up to 25 students per workshop • Ages 8 to 16 • Grouping by age and/or experience level is recommended
Team Size	<ul style="list-style-type: none"> • Participants work in pairs
Facilitators	<ul style="list-style-type: none"> • One Mindsurfers staff facilitator per workshop
Materials Provided	<ul style="list-style-type: none"> • Per team: <ul style="list-style-type: none"> ○ Dr. Heartbeat robot and attachments ○ Computer and NXT software • Per group: <ul style="list-style-type: none"> ○ Table (4ft x 8ft) and playing field mat ○ Certificates of achievement for each participant ○ Optional (at cost): T-shirts and DVDs • Extra robot components will be provided if needed
Program Costs	<ul style="list-style-type: none"> • Per Workshop: <ul style="list-style-type: none"> ○ Equipment and supplies: \$220 ○ This is a flat rate for each workshop – 6 to 25 students.

	<ul style="list-style-type: none"> Optional add-ons: <ul style="list-style-type: none"> T-Shirts: \$6 per student DVD of Event: \$5 per student Customized website for extended activities: \$2000 - 6000
Funding	<ul style="list-style-type: none"> Mindsurfers is equipped to help you secure a grant to fund all or part of the cost of the program. Contact Heather at hfreeman@mindsurfers.org to start this process.
Expected Outcomes	<ul style="list-style-type: none"> Positive attitudes about and interest in STEM education and careers Creativity in combining science, technology, engineering and imagination Teamwork and communications techniques Problem solving and information processing skills An understanding that many problems have multiple solutions Independently follow step-by-step instructions A motivation to learn and engage in hands-on activities

