



LEGO Robotics Summer 2024 Session

LEGO® ROBOTICS WORKSHOP DESCRIPTION

Students will use structured lessons and challenges that introduce basic, intermediate, and advanced level construction techniques, use of touch, light, and ultrasonic sensors as well as basic to advanced programming methods. Students are also challenged through more open-ended projects and missions, where they will receive guidance. All sessions are designed for students regardless of previous LEGO® Spike Prime robotics experience.

The challenges will include both autonomous (programmed) and remote-control (connected) operation. Student teams will also have an opportunity to design and program a robot to solve a challenge. Students will have a partner(s) for most activities and are required to cooperate and share well.

All lessons will ignite student engagement and energize learning through real-life problem solving. Your students will be engaged in activities related to Computer Science, Science, Technology, Engineering and Math. Daily exercises strive to boost learning curves and help all your students reach their curriculum targets.

Workshop Curriculum

LEGO® SPIKE PRIME® Education Design Engineering Projects is a curriculum package of classroom instruction and open-ended, problem-solving activities. Students work to solve open-ended problem-solving activities in a context that makes it fun and engaging to learn. All activities engage students through the use of science, technology, engineering, and mathematics.

The workshop curriculum combines science and mathematics concepts with soft skills, such as creative thinking, problem solving, teamwork, and communication skills, boosting 21st-century learning skills. All projects follow a design engineering process as used by engineers in various industries.

With LEGO® SPIKE PRIME® Education offers a hands-on, minds-on approach the only challenge we'll have is getting your students to leave the classroom!

Eligibility and Fees.

Minimum age is 8 (recommended for ages 9 – 14). Max number of students: 15 / session

SPIKE PRIME Robotics Workshops Dates, and Times:

Session 1: June 24th – 28th, 2024 8am – Noon

Session 2: July 22nd – 26th, 2024 8am – Noon

Workshop Location: **Illinois Math Academy, 2200 War Memorial Drive, Peoria, IL-61613 Northwood Mall Lower level (North end)**

Fee: \$100 / session (need-based scholarships are available for eligible students)

Make checks payable to: **Illinois Math Academy**

ONLINE FORM ACCESS CLICK HERE: [2024 SUMMER SESSION ONLINE REGISTRATION](https://forms.office.com/pages/responsepage.aspx?id=DQ5ikWdsW0yxEja|BLZtrQAAAAAAN_sKSLXxUQUdQVDIUSDM55JRKQVAzR1VQT0VVNDZLSI4u)

https://forms.office.com/pages/responsepage.aspx?id=DQ5ikWdsW0yxEja|BLZtrQAAAAAAN_sKSLXxUQUdQVDIUSDM55JRKQVAzR1VQT0VVNDZLSI4u



LEGO Robotics Summer Workshop Information and Authorization Form

A Parent/Guardian or other authorized adult must sign each child in/out of the workshop every morning and afternoon. No drop-offs without signing the child in. The only people that your child will be released to are those listed on your information form. **Note:** all persons authorized to pick up workshop attendees must be at least 16 years of age and have an ID. If someone other than a parent will pick up your child, please give us prior written notice.

• Scholarships are available to a limited number of students based on economic condition. Submit your scholarship request to the instructor using either mail or the email address below.

Mailing Address: **Illinois Math Academy, 2200 War Memorial Drive, Peoria, IL-61613**

Email: illinoismath@gmail.com

Please check all that apply:

- No LEGO Spike Prime Experience
- FIRST LEGO League Experience
- NXT Programming Experience
- Attended any previous robotics class or camps? Please specify: _____
- Some LEGO Spike Prime Experience
- RCX Programming Experience
- SPIKE PRIME Programming Experience

How did you find out about the workshop: _____

Child Name: _____ Birthdate: _____ Age: Sex: M / F

Parent Name: _____ Cell Phone: _____

Parent Name: _____ Cell Phone: _____

Home Phone Number: _____

Other Phone Number: _____

Emergency Contact: Phone: _____

Additional Authorized Adult: _____ Phone: _____

Additional Authorized Adult: _____ Phone: _____

Special Instructions / Allergies:

I hereby grant IMA permission to photograph and/or videotape my above-named child during LEGO Robotics Workshop. I further grant them right to use these photographs and video of my child for educational or promotional purposes. I hereby waive any claims or causes of action which I may now or hereafter have against LEGO Robotics Summer Workshop organizers arising out of my child's participation, and I will indemnify and hold harmless against any and all claims resulting from such participation.

In the event my child should sustain injuries or illness while involved in a Robotics workshop, I hereby authorize such aid or other treatment as may be necessary under the circumstances, to include treatment by a physician or hospital.



Parent/Guardian Signature: _____ Date: _____