



2020 Summer Camp

4th - 8th Grade

For kids who will be in 4th-8th grade in the 2020-2021 school year.

Register Online BadgerBOTS.org/summercamp

Robotics

LEGO Robotics Challenge (\$275/week)

Students will learn how to push LEGO to its limit by building and programming robots to fulfill challenges. Learn the basics of measuring and accuracy, coding strategies, debugging and troubleshooting, and how to equip robots with sensors. Students must use what they learn to construct a robot creatively designed to earn as many challenge points as possible.

LEGO Robot Olympics (\$275/week)

Get excited for the Summer 2020 Olympics by participating in the BadgerBOTS LEGO Robot Olympics! Learn to make different LEGO Mindstorms EV3 mechanisms for speed, strength and skill to create the elite robot "athlete". Will your robot earn a gold medal?

Microbit Robotics (\$275/week)

The micro:bit is a super small and very versatile little computer. With a few lines of code, you can control servo motors, LEDs, and get input from several kinds of sensors. In microbit robotics, build and code the micro:bit to create different driving, lifting, following, avoiding, carrying, glowing, agile little robots. Then create group projects like a city of self-driving cars and robotics creatures.

Programming

Minecraft Modding (\$275/week)

Ever wanted to tweak your inventory, create Minecraft games like you've played online, or customize your experience? Start learning to code modifications to Minecraft with an online modding program and Javascript. Build your programming skills and dip your toes into game design as we create and test Minecraft mini-games in this camp.

Roblox Game Developer (\$275/week)

Lua is a very well known scripting language used in sandbox type games like Roblox. Learn the basics of programming by creating versions of popular Roblox games. Test code by playing together in our dedicated BadgerBOTS Roblox classroom. Finally, campers will learn how to publish their games and best practices to keep online games safe and fun for everyone to enjoy.

Technology

Microbit Makerspace (\$275/week)

The micro:bit is a teeny, tiny computer which is easy to program and connect to sensors, motors, and other electronic components. Learn to use the micro:bit to make DIY Makerspace projects like wearable tech, robotic pets, high-tech board games, and custom game controllers.

Tinkercad 3D Printing (\$275/week)

This camp is all about using a computer to create 2D and 3D designs and artwork. Tinkercad is a beginner CAD (computer-aided design) program used to create digital objects which will then be printed on our 3D printers. Over the week, the class will work on several projects and learn not just design and print, but some 3D printing troubleshooting and design improvement.

Camps Schedule on Reverse

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2020 Summer Camp Schedule

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All camp sessions are \$275 for a week long, half-day programs.

New Extended Day: Sign Up for Early Drop-Off (between 7:30- 8:30 AM) and Late Pick-Up (from 4:30-5:30 PM)

	Morning Camp Choices 8:30 AM - Noon	Lunch Hour Noon - 1	Afternoon Camp Choices 1:00 - 4:30 PM
June 15 - 19 Week 1	Minecraft Modding Microbit Robotics	Lunch Week 1	Tinkercad 3D Printing LEGO Robot Olympics
June 22 - 26 Week 2	Roblox Game Developer Microbit Makerspace	Lunch Week 2	Minecraft Modding LEGO Robotics Challenge
No Camp June 29 - July 3			
July 6 - 10 Week 3	Tinkercad 3D Printing LEGO Robot Olympics	Lunch Week 3	Roblox Game Developer Microbit Makerspace
July 13 - 17 Week 4	Tinkercad 3D Printing LEGO Robotics Challenge Microbit Makerspace	Lunch Week 4	Minecraft Modding LEGO Robot Olympics Microbit Robotics
July 20 - 24 Week 5	Minecraft Modding LEGO Robotics Challenge	Lunch Week 5	Roblox Game Developer Microbit Robotics
July 27 - 31 Week 6	Roblox Game Developer LEGO Robot Olympics Microbit Robotics	Lunch Week 6	Tinkercad 3D Printing LEGO Robotics Challenge Microbit Makerspace
August 3 - 7 Week 7	Minecraft Modding Microbit Makerspace	Lunch Week 7	Tinkercad 3D Printing LEGO Robot Olympics
August 10 - 14 Week 8	Tinkercad 3D Printing Microbit Robotics	Lunch Week 8	Minecraft Modding LEGO Robotics Challenge
August 17 - 21 Week 9	Roblox Game Developer LEGO Robotics Challenge	Lunch Week 9	Tinkercad 3D Printing Microbit Makerspace
August 24 - 28 Week 10	Minecraft Modding LEGO Robot Olympics	Lunch Week 10	Roblox Game Developer Microbit Robotics