

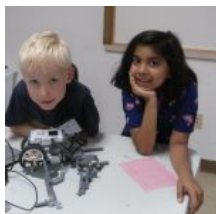


2019 Summer Camp 2nd - 3rd Grade

For kids entering 2nd and 3rd grade in the 2019-2020 school year.

The minimum age for these camps is 7 years old by the start date. All camps are \$275. Camp sessions are week long, half-day programs. Sign up for a morning or afternoon camp, or **register for Lunch and stay at BadgerBOTS all day.**

Junior LEGO Robotics (\$275/week)



In the Junior LEGO Robotics Summer Camp, kids will build and program a LEGO Mindstorms robot. Campers will construct a simple wheeled robot, learn to measure distance and turns, and use this information to create a program for their robot to move around on its own.

Scratch Junior (\$275/week)



During the week we will explore how to use technology to tell stories and make games. Participants will learn programming concepts such as logic, variables, and loops -just like the older kids learn in Scratch camp.

LEGO WeDo (\$275/week)



This is a camp for LEGO building fanatics. Students will learn about simple machines and programming basics while building models that move, and respond to sound, movement and changes in distance.

COZMO Coding (\$275/week)

Cozmo is a little robot with a big personality. We will use the Cozmo Code Lab programming language to teach Cozmo tricks, play games, move and dance, speak and change facial expressions.



Lunchtime Activities (\$50 per week) Want a full-day camp option? Stay at BadgerBOTS for lunchtime activities. Campers will need to bring a packed lunch.

This is not a school-sponsored activity and the Madison Metropolitan School District does not approve, support, supervise or endorse this program/activity.



BadgerBOTS Robotics Education Center

(608) 831-6479

7615 Discovery Dr. Middleton, WI 53562

www.badgerbots.org



2019 Summer Camp Schedule

2nd - 3rd Grade

Register Online BadgerBOTS.org/summercamp

Camp sessions are week long, half-day programs. Sign up for a morning or afternoon camp, or register for Lunch and stay all day. All camps are \$275 for a one-week, half day session.

	Morning Camps 8:30 AM - Noon	Lunch Hour Noon - 1	Afternoon Camps 1:00 - 4:30 PM
June 17 - 21 Week 1	LEGO WeDo	Week 1	Scratch Jr
June 24 - 28 Week 2	COZMO Coding	Week 2	Jr LEGO Robotics
No Camp Week of July 4			
July 8 - 12 Week 3	Jr LEGO Robotics	Week 3	Scratch Jr
July 15 - 19 Week 4	LEGO WeDo	Week 4	COZMO Coding
July 22 - Aug 2	No Junior Camps		
August 5 - 9 Week 7	Scratch Jr	Week 7	LEGO WeDo
August 12 - 16 Week 8	COZMO Coding	Week 8	Jr LEGO Robotics
August 19 - 23 Week 9	Jr LEGO Robotics	Week 9	LEGO WeDo
August 26 - 30 Week 10	Scratch Jr	Week 10	COZMO Coding





2019 Summer Camp

4th - 8th Grade

For kids who will be in 4th-8th grade in the 2019-2020 school year.

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

Sign up for a morning or afternoon camp, or register for Lunch and stay at BadgerBOTS all day.

Robotics

LEGO Robotics and Programming (\$275/week)

Discover robotics design and programming as you build a LEGO robot and program it to complete challenging tasks. We will learn about measuring and accuracy, step-by-step programming strategies, and how to use sensors with the robot.

LEGO Robot Builder (\$275/week)

Did you know that the LEGO EV3 Robotics kit comes with over 1,300 LEGO parts? What can you build with them all? In this camp, students will learn about constructing different LEGO mechanisms to make robots that drive, walk, lift, grab and more.

WaterBotics (\$275/week)

In this camp we will turn our LEGO robot kits into submersible Remote Operated Vehicles (ROVs) and drive them around in the BadgerBOTS Robot Pool. Campers will work in pairs to design their robot to complete daily challenges while experimenting with buoyancy, propulsion, gears, and programming.

Minecraft Modding (\$275/week)

Minecraft Modding will introduce how to make your own personal modifications to Minecraft using an online modding program and Java. Over the week we will use Minecraft to learn about basic programming elements as well as game design while building mini-games.

Scratch Game Design (\$275/week)

In this camp we'll learn to make animations and games using Scratch, a free, online programming tool with over thirty five million users worldwide. Campers will learn real programming concepts such as logic, variables, and loops.

Roblox Game Design in Lua (\$275/week)

Students will learn the basics of programming in Lua by creating versions of popular Roblox games. We will then test out our code by playing together in our Roblox classroom. Finally, we will learn about game publishing and how to keep our online games safe and fun for everyone!

Microbit Makerspace (\$275/week)

The microbit is a teeny, tiny computer which is easy to program and connect to sensors, motors, and other electronic components. In this camp we will learn to use the microbit to make projects like: wearable tech, robotic pets, high-tech board games, and custom game controllers.

Tinkercad 3D Printing and Design (\$275/week)

Tinkercad is a beginner CAD program which we will use to create digital objects to be printed on BadgerBOTS 3D printers. The class will work on several projects and learn not just design-and-print, but some 3D printing troubleshooting and design improvement.

App Inventor (\$275/week)

App Inventor is a fun and easy way to begin learning how to create Android apps for phones and tablets. By taking advantage of Bluetooth, GPS, phone sensors and WiFi, campers will learn to start creating the apps they have always wanted to make.

Programming

Technology



2019 Summer Camp Schedule

4th - 8th Grade

Register Online BadgerBOTS.org/summercamp

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Sign up for a morning or afternoon camp, or register for Lunch and stay at BadgerBOTS all day.

	Morning Camps 8:30 AM - Noon	Lunch Hour Noon - 1	Afternoon Camps 1:00 - 4:30 PM
June 17 - 21 Week 1	Tinkercad 3D Printing LEGO Robot Builder	Lunch Week 1	Minecraft Modding Microbit Makerspace
June 24 - 28 Week 2	Roblox Game Design WaterBotics	Lunch Week 2	Scratch Game Design LEGO Robotics and Programming
No Camp Week of July 4			
July 8 - 12 Week 3	LEGO Robotics and Programming Minecraft Modding	Lunch Week 3	Tinkercad 3D Printing LEGO Robot Builder
July 15 - 19 Week 4	Microbit Makerspace Android App Inventor	Lunch Week 4	Minecraft Modding WaterBotics
July 22 - 26 Week 5	LEGO Robot Builder Roblox Game Design Microbit Makerspace	Lunch Week 5	Scratch Game Design Tinkercad 3D Printing LEGO Robotics and Programming
July 29 - Aug 2 Week 6	Scratch Game Design LEGO Robotics and Programming Minecraft Modding	Lunch Week 6	Android App Inventor WaterBotics Microbit Makerspace
August 5 - 9 Week 7	Tinkercad 3D Printing LEGO Robot Builder	Lunch Week 7	Roblox Game Design LEGO Robotics and Programming
August 12 - 16 Week 8	WaterBotics Scratch Game Design	Lunch Week 8	Microbit Makerspace Minecraft Modding
August 19 - 23 Week 9	Microbit Makerspace Tinkercad 3D Printing	Lunch Week 9	Roblox Game Design LEGO Robotics and Programming
August 26 - 30 Week 10	Android App Inventor WaterBotics	Lunch Week 10	LEGO Robot Builder Minecraft Modding



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