STEM SUMMER CAMPS

built by me
STEM LEARNING

This summer, we're excited to present a diverse array of STEM Camps at your location, focusing on coding and robotics. Running from the week of July 8th through August 16th, our camps are designed to be interactive, collaborative, hands-on, and project-based. The primary goal is to use technology as a tool for both learning new skills and having a great time!

Programs:

- LEGO® Robotics and Coding - Summer Fun (Incoming grades 2 - 4)
- LEGO® Coding and Robotics with Scratch MIT - Summer Getaway (Incoming grades 4 - 6)
- LEGO® Robotics and Coding - Space Quest (Incoming grades 2 - 4)
- LEGO® Robotics and Coding with Scratch MIT - Quirky Adventures (Incoming grades 4 - 6)
- Robotics with mBot Robot (Incoming grades 4 - 6)
- Game Design and Animation Lab Camp with Scratch MIT- (Incoming grades 4 - 6)
- Coding with micro:Bit (Incoming grades 4 - 6)

Details:

- 3 hours/day x 5 days per week: 9 am to 12 pm or 1 pm to 4 pm
- Up to 8 students per class, a minimum of 4
- At your facilities (room or pavilion with power and WIFI)
- We provide instructors, lesson plans, equipment and materials

For more info: makers@builtbyme.com · 866-752-8458
builtbyme.com/summercamps

We help children grow into creators.

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LEGO® Robotics and Coding - Summer Fun: Grades 2 - 4

This fun and interactive camp will introduce children to coding, robotics, and engineering using the LEGO® Education Robotics Construction Sets. Throughout the week, campers will participate in hands-on STEM activities and team-building challenges to learn concepts such as sequencing, debugging and troubleshooting. They will work in pairs on building models using sensors and motors that will allow them to code their prototypes to simulate amusement park rides. Young engineers will learn and gain confidence as they build and test their designs, reinforcing these concepts.

LEGO® Coding and Robotics with Scratch MIT - Summer Getaway: Grades 4 - 6

This fun and interactive camp will introduce children to coding, robotics, and engineering using the LEGO® Education Robotics Construction Sets. Throughout the week, campers will participate in hands-on STEM activities and team-building challenges to learn concepts such as sequencing, debugging, and troubleshooting. They will work in pairs on building models using sensors and motors that will allow them to code their prototypes to simulate means of transportation using Scratch MIT, a block-based coding language. Young engineers will learn and gain confidence as they build and test their designs, reinforcing these concepts.

LEGO® Robotics and Coding - Space Quest: Grades 2 - 4

This dynamic and interactive camp offers an introduction to coding, robotics, and engineering through the use of LEGO® Spike Essential Education Robotics Construction Sets. Utilizing sensors and motors, campers work in pairs to build and code models focused on space exploration. The camp incorporates a variety of hands-on STEM activities and team-building challenges. Through building, testing, and problem-solving, young engineers gain confidence while fostering creativity and innovation.

LEGO® Robotics and Coding with Scratch MIT - Quirky Adventures: Grades 4 - 6

This dynamic camp immerses children in coding, robotics, and engineering with LEGO® Spike Essential Education Robotics Construction Sets. Working in pairs, campers will build imaginative models like a trash monster and high-tech playground, integrating sensors and motors. They will then code their models using Scratch MIT, a block-based code. The hands-on experience emphasizes engineering design skills—defining problems, brainstorming solutions, and testing prototypes. The camp's fusion of creativity, technology, and collaboration makes STEM concepts accessible and fun.

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Robotics with mBot Robot: Grades 4 - 6

This camp offers a well-rounded and engaging experience for children interested in exploring the exciting world of robots and coding. Young engineers will discover the basics of coding and robotics as they learn how to program the mBot robot to complete a variety of tasks, building and expanding their coding skills along the way. This fun and interactive program will have them track and probably chase their mBots through mazes and other activities.

Game Design and Animation Lab Camp (with Scratch MIT): Grades 4 - 6

This camp offers a hands-on learning experience that will teach your child the basics of game design and animation. Using Scratch, a kid-friendly programming language, campers will learn how to create unique games and animations. Our experienced coaches will guide your child through the process, from developing their ideas to creating their final projects. Along the way, they will develop important skills such as problem-solving, critical thinking, and creativity. By the end they will have completed video games and animated stories that they can share with family and friends.

Laptop or Chromebook are required.

Coding with micro:Bit: Grades 4 - 6, *Material fee: $40*

Campers will explore the world of electronics and the Internet of Things using a micro:Bit, a pocket-sized computer that makes learning coding easy and fun. Young programmers will use their micro:Bits to create games and projects using built-in LED screens, buttons, and sensors while learning coding languages such as Scratch and JavaScript. This programmable board will allow campers to express their imagination and inspire digital creativity.

At the end of the camp, each child will take home their projects where they can continue to experiment with the micro:Bit and the other electronics.