

EV3? VEX? Curious about robotics camps at the RMSC but don't know which one is right for you? We're here to help you and your campers decide!

EV3 Robotics			VEX Robotics
EV3 Robotics Explorers	EV3 Robotics Challengers	EV3 Robotics Innovators	
<p>Available for ages: ✓ 6-8</p> <p>Experience Level: ✓ No previous robotics experience necessary</p> <p>Explorers use the LEGO Mindstorms EV3 Robotics system to build your own robot. Working as a team, you will build and learn to control a sophisticated robot. Get a hands-on introduction to programming and discover everything that the field of robotics has in store for you.</p>	<p>Available for ages: ✓ 9-11</p> <p>Experience Level: ✓ Previous robotics experience is helpful but not necessary</p> <p>Challengers work as team to build and program your own robot using the LEGO Mindstorms EV3 Robotics systems. Once your robot is built, program it to conquer a series of engineering challenges.</p>	<p>Available for ages: ✓ 12-15</p> <p>Experience Level: ✓ Previous robotics experience is helpful but not necessary</p> <p>Innovators take EV3 Robotics to another level! Challenge yourself to build a robotic elephant, puppy, monster, crane, or other advanced robot using the LEGO Mindstorms EV3 system. Building these 'bots is only half the challenge! Program your robot to complete tasks to impress the judges. Display your work in one of our museum galleries at our EV3 Expo.</p>	<p>Available for ages: ✓ 9-11 ✓ 12-15</p> <p>Experience Level: ✓ Previous experience with VEX or LEGO robotics is helpful but not necessary ✓ Involves fine-motor skills</p> <p>VEX Robotics campers build complex robots, learn about gear ratios and overcome team challenges. Experiment with the design process as you build, test and re-test to prep your team's robot for the demonstration on Friday afternoon.</p> <p>Robot Type: VEX EDR Robots</p> <ul style="list-style-type: none"> ✓ Materials can be described as similar to an "Erector Set" ✓ Frame of robots are built from metal pieces, all parts (wheels, arms, etc.,) are assembled by the camper with wrenches, nuts and bolts ✓ Uses a hand-held remote control <p>Why VEX Robotics?</p> <ul style="list-style-type: none"> ✓ Highly versatile construction system allows campers to build a robot of their own design piece by piece ✓ Teaches engineering design process in a hands-on manner
<p>Robot Type: LEGO®Mindstorms®EV3</p> <ul style="list-style-type: none"> ✓ EV3 is the next 'generation' of LEGO® MINDSTORMS® ✓ Plastic pieces are easily snapped together like regular LEGOs® ✓ Central 'hub' is the brain of the robot ✓ Step-by-step 3-D building instructions to create and bring robots to life with an easy, intuitive and icon-based programming interface <p>Why EV3 Robotics?</p> <ul style="list-style-type: none"> ✓ Our newest robotics system! ✓ Combines the versatility of the LEGO building system with the most advanced technology ✓ Create and command robots to do almost anything you can imagine 			
			

Campers in all of the robotics camp programs offered by RMSC's Curiosity Camp will:

- ✓ Work in small groups of 2 or 3 to hone in the essential skillset of TEAMWORK that is a building block for success on school robotics team, local club teams and is showcased at the nationally recognized competitions.
- ✓ Get hands-on experience with robotics:
 - Discover what robots are and how they influence our lives
 - Build a robot
 - Bring that robot to life by learning to program
 - Command and play with the robots

