

Entering Grades K-1

**Camp Sessions run from 9:00 AM – Noon
(5 Day Camps: Monday through Friday)**

COST: \$180

***K-1 Camp with After-Camp Care Option from Noon – 2 PM**

TOTAL COST: \$230

*After-Camp Care is available for K-1 campers from Noon – 2:00 PM for an additional \$50 per week. Please select this add-on option when registering online.

Three Bears in Space

Offered Week 1 or Week 6

Join our three space bears, Gemini, Mercury and Apollo as they explore the wonders of our Universe and excitement of space exploration. They'll help you create your own constellation, probe into planetary science, train like an astronaut, test and design B.E.A.R. (Bear Egress And Recovery) parachutes, celebrate with you as you launch your very own rocket and much more!

Scientist, Scientist

Offered Week 2 or Week 4

Scientist, scientist what do you see? I see great fun looking at me! Junior scientists will explore a different science topic each day based on the books of award winning children's author, Eric Carle. Finding the science in beloved literature such as The Very Hungry Caterpillar, Little Cloud, The Mixed-Up Chameleon, The Very Lonely Firefly and Pancake, Pancake is a fun way to engage even the youngest scientist to explore their world through experiments, activities and science related crafts. Discover the connections between weather, bubbling solutions, buzzing insects, rainbows of color and so much more!

LEGO® DUPLO “Not So Simple” Machines

Offered Week 3 or Week 5

Even the youngest campers will enjoy exploring engineering skills and architectural design as they build with LEGO DUPLO to create some crazy contraptions. Connect these hands-on building adventures with favorite children's literature selections and this camp will be cranking out some serious fun.

All K-1 campers should bring a small healthy snack and bottle of water each day.

NOTE: After-Camp Care participants will also need to pack a lunch/drink each day.

Camp Registration includes 1 camp t-shirt. Additional shirts available for purchase when registering for an additional \$15.

Entering Grades 2-3

**Camp Sessions run from 9:00 AM – 2:00 PM
(5 Day Camps: Monday through Friday)**

COST: \$230

LEGO® WeDo Robotics

Offered Week 1, 5, or 7

Lions and tigers and airplanes, oh my! Airplanes? That's right... airplanes. Come on a wild LEGO adventure as we build and program LEGO WeDo robotic models, share some silly stories and create some crazy crafts! Look out - this summer is going to be filled with roaring lions, chomping alligators, dancing birds and more!

Astronaut Training Challenge

Offered Week 2 or 3

iSPACE challenges you to take on the role of an astronaut in training as you build, test and launch a variety of rockets, create your own space soda pop, conduct hands-on activities to investigate the G's in gravity, design space habitat modules, and explore the "ups and downs" astronauts encounter while living and working in a microgravity environment. Come see if you have the right stuff and still be home in time for dinner.

LEGO® Engineering FUNdamentals

Offered Week 4 or 5

Are you a LEGO maniac? Use motors, gears, pulleys, levers, wheels & axles to go radical and create awesome LEGO creations! Mom and Dad will love the fact that you're learning awesome engineering skills. You will love the fact that you are having an awesome time with new friends who share your love of LEGO. Make plans for building some fun this summer.

Environauts

Offered Week 6

Traveling through space at over 67,000 mph, the Environauts are racing to save a planet in distress. Answering the S.O.S. message of "Save Our Sphere" becomes an urgent matter! By learning how to harness the power of a nearby star, the Environauts work together as a team to explore ways to protect our planet. That's right - the race is on to save our very own planet - Earth! Environauts will be asked to come to the rescue by conducting a multitude of hands-on environmental investigations (water, soil and atmospheric) that will unlock potential solutions for using sun, wind and water as renewable energy sources. Sign on as an Environaut and become a planet protector today!

All 2-3 campers should bring a small healthy snack, water bottle and lunch each day.

Camp Registration includes 1 camp t-shirt. Additional shirts available for purchase when registering for an additional \$15.

Entering Grades 4-5

**Camp Sessions run from 9:00 AM – 2:00 PM
(5 Day Camps: Monday through Friday)**

COST: \$230

LEGO® Mechanisms in Motion (LEGO + T-Bots II)

Offered Week 1 or 2

Get a lift out of your summer as you build and operate mechanisms that are powered by pneumatics and hydraulics. You are in control as LEGO models and Syringe-Bots come to life in your hands. Mighty machines are about to get mightier. Get ready to pump up the action with mechanisms in motion at camp this summer.

RoboBlast

Offered Week 2, 5, or 7

Calling all cadets to enlist in this exciting summer camp adventure where you will work in teams to build and program LEGO Mindstorm robots using the Robotics Invention System and the RCX controller. A successful mission is sure to take place when you combine LEGO robots, fun challenges, a rocket and lots of new friends.

LEGO Earth T.R.E.K. (Tapping Renewable Energy Know-How)

Offered Week 3, or 6

Energize your summer at LEGO Earth T.R.E.K. by exploring renewable energy sources using LEGO models that can be compared to real-world energy sources. Earth TREKKERS will investigate the renewable energy sources available on earth and then tap into their own “know-how” to ensure our planet will be healthy for many generations to come. LEGO models include solar powered vehicles, wind turbines, hydro powered stations and more!

STAR Readers – “MOONBASE CRISIS” (This Session includes an iMISSION)

Offered Week 4

Seeking avid readers with a love for space science! Keep your reading skills sharp while you get your hands into some fun space science exploration activities based on the plot of "Moonbase Crisis," the first book in the new Star Challengers reading series. The STAR team will build and launch air powered and solid fuel rockets, program LEGO lunar rovers, explore the electromagnetic spectrum, leap into lunar science, and step up to the challenge of participating in an exciting iMISSION. *(An iMISSION is an interactive simulation placing participants directly into the role of a scientist/engineer.)*

All 4-5 campers should bring a small healthy snack, water bottle and lunch each day.

Camp Registration includes 1 camp t-shirt. Additional shirts available for purchase when registering for an additional \$15.

Entering Grades 6-7

**Camp Sessions run from 9:00 AM – 2:00 PM
(5 Day Camps: Monday through Friday)**

COST: \$230

NXT Challenge (Introduction to LEGO NXT Robots)

Offered Week 1

Are you ready for the next challenge in robotics? Campers are invited to step up to the newest generation of LEGO robots – the NXT. Expand your engineering, programming, and teamwork skills as you build and program autonomous LEGO NXT robots in order to meet the challenge of the day. Challenge yourself to see what's NeXT.

S3 - Space Station Science (This Session includes an iMISSION)

Offered Week 2

Delve into life on a space station by probing into multiple science disciplines key to getting into, living and conducting research in space. Touch on astronomy, geology, physics, botany, human physiology and more. Find out how the experiments and activities (including LEGO constructions) you complete here on earth compare to the same ones conducted by astronauts on board the International Space Station (ISS). Next, use your newly acquired knowledge, critical thinking skills and teamwork to solve problems and save the crew during an iMISSION experience. (*An iMISSION is an interactive simulation placing participants directly into the role of a scientist/engineer.*)

Bio-Bots (Biomimicry and LEGO NXT Robots)

Offered Week 3

Discover where and why NASA looks to nature for answers when designing robots to explore our solar system. Using LEGO NXT robots, some creativity and maybe just a little "animal instinct," robots are sure to be hopping, slithering and crawling all over iSPACE this summer.

Deep Space Bots (LEGO NXT Robots)

Offered Week 4 or 6

Travel to the edge of the universe in a robotics adventure that reveals a future when humankind will transform distant planets into livable habitats. Join Space Shuttle Entropy's team as you investigate distant moons and planets. Step up to the challenge with your team and be prepared to put your LEGO NXT programming and engineering skills to work in this engaging robot adventure into deep space.

Radical Rockets

Offered Week 5

Looking for an exciting way to beat the heat this summer? Forget the water hose – launch a water bottle rocket instead! We bet you won't even notice how wet you are as you watch your rocket soar high in the sky. Then, it's back to the drawing board to design an even better rocket. (Warning: you might get wet more than once!) Next, you'll have a chance to build and launch air powered and solid fuel rockets. Put it all together and you'll discover that creativity and teamwork makes for an action-packed week of radical rocketry fun.

All 6-7 campers should bring a small healthy snack, water bottle and lunch each day.

Camp Registration includes 1 camp t-shirt. Additional shirts available for purchase when registering for an additional \$15.

Entering Grades 8-10

**Camp Sessions run from 9:00 AM – 2:00 PM
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Rev, Race & Soar

Offered Week 4

Start your engines! We're talking about LEGO NXT robot engines. Next, the space race is on as you build and launch some high flying rockets. Finally, let your creativity loose as you design and construct a hot air balloon that will soar into the sky. This fast-paced camp adventure offers a smorgasbord of some of the favorite activities from past iSPACE camps that will get you all revved up for an exciting summer!

TETRIX Robotics – Tackling the Basics

Offered Week 5

Explore the exciting engineering field of robotics. Build a heavy-duty, aircraft-grade aluminum TETRIX robot and control it using the LEGO Mindstorms NXT brick, powerful drive motors, and ROBOTC language. Complete various challenges autonomously and under wireless remote control. If you're serious about engineering, this camp is for you!

All 8-10 campers should bring a small healthy snack, water bottle and lunch each day.

Camp Registration includes 1 camp t-shirt. Additional shirts available for purchase when registering for an additional \$15.

Camp Weeks

Week 1: June 18-22
Week 2: June 25-29
Week 3: July 9-13
Week 4: July 16-20
Week 5: July 23-27
Week 6: July 30-August 3
Week 7: August 6-10

General Information:

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iSPACE is located on the Scarlet Oaks Campus of Great Oaks Institute of Technology and Career Development