

Idea Lab Summer 2019 Camp Options

Class Name	Class Description	Grade level start	Grade level end
Idea Building Company: Toy Engineering	Join Idea Lab as we design, test and build our very own toy store by using found object such as batteries, magnets, old gadgets to design, build and fine tune simple toys. This camp will challenge our budding engineers to be creative in repurposing preexisting objects into new toys that spin, move, light up or do other cool things while teaching them about Engineering principles.	Kindergarten	2nd
Wizard Science Academy	Step into the magical world of Science! Campers will spend the week conducting science experiments that will take the form of potions, illusions, and imagination. Students will be challenged with unique projects that will allow for creative play and competition to be the top wizard of the group. Do you have what it takes?	3rd	6th
Minecraft and Survive with Lego	Do you love minecraft? Enjoy Minecraft and LEGOs in this fun and creative camp! We will explore both online and offline activities as we use our favourite building tools, LEGOs, to create the Minecraft world, and then play the game online inside the actual Minecraft environment.	1st	4th
Lego Robotics: Stomp and Chomp	IDEA Lab Robotics provides fun, hands-on projects to get your child's creative juices flowing. Working with a Robotics teacher, campers will participate in team challenges and learn how to build robots using various LEGO programming tools-all while making friends, developing new skills and having a great time with STEAM.	1st	4th
Mix, Measure, Pour: A Scientific Journey	What Fizzes and Crackles? Science, of course. In this IDEA Lab camp we will explore the fun, the messy and the educational concepts behind Chemical Reactions. Create volcanoes to explore the science of reactions, get gooey and slimy to learn about polymers and have a great deal of Scientific fun in the process. Who knew our kitchen could create such a slimy scientific mess?	Kindergarten	2nd
Genetics, DNA, Dissection	An IDEA Lab camp like no other where campers are exposed to DNA extraction, learning about the inner workings of the heart by building working models and several dissections including a Sheep's heart. This is a great class for hands-on learning about anatomy. Take Home Components include various working models of human organs and systems, as well as a DNA book that they will create.	3rd	6th
Jr. Coding: Tynker	Learning to code with Idea Lab is engaging and fun even at a young age. Kids rapidly learn fundamental programming concepts as they drag and drop their way to writing actual code. Campers work with the easy to learn programming language Tynker as they create games and learn about the programming principles.	1st	4th
TinkerShop: Gears and Gadgets	Little IDEA Lab Engineers will enjoy this fun engineering camp that explores how gears are used in every day life! Campers will get experience with a gear wall, see gears in action and even create their own functioning gears from everyday materials.	1st	4th

Medical Science: Future Doctors	Little Doctors work on learning about what makes our body work. From learning about digestive systems and building working models of our lungs while studying the respiration process, our Little Doctors are engaged in learning throughout. We learn about casts, sutures and more, and we end the class with a clinic to showcase our talents. One of the most popular camps each year with a fantastic turnout as young campers explore the beginning stages of becoming a doctor. Starting with science exploration and experiments, as well as creative play, the campers enter the world of medicine.	Kindergarten	2nd
Build It: Civil Engineering	Civil engineering consists of design and construction, physical and naturally built environment, including works such as roads, bridges, canals, airports, and railways. In this camp, Campers will explore infrastructure, zoning, and designing their own city	3rd	6th
Lego Robotics: EV3 Coding and Programming	In this Intro to Robotics camp, we will be using our engineering focus to guide us. Using the latest Lego Robotics Technologies, Mindstorm EV3s, campers will be challenged with intricate builds via instructions, make creative builds using their imagination and program their robots all along the way. There will be competitions to test our skills, and in the end we will all become robotics masters.	3rd	6th
MacGyvers Tinker and Invention Lab	Can you use the resources given to you to you to create something? Are you into fun engineering challenges that challenge your brain power and team work? if so this is the camp for you! Campers will explore the art of engineering through challenges that forces them to think on their toes!	3rd	6th
Time Travellers: Age of the Dinosaur	Spend the week learning about these amazing creatures, creating fossils, learning to classify bones, digging for fossils and assembling dinosaur skeletons. Learn Rock classifications and geology lessons as we construct awesome rock and gem collection boards and build your own solar-powered robots to help with the excavation sites. Warning-giant volcanoes will be erupting! All junior paleontologists welcome.	Kindergarten	2nd
Grossology	All things Gross! Campers will jump right into this creepy, crawly, camp! Campers will explore bugology and all the gross things science has to offer! Campers dig into the gross world of bugology and all the fun and gross thing bodies do!	1st	4th
Stop Motion Animation: Time Travellers	IDEA Lab campers will learn to work with Stop Motion Animation and learn how to take pictures and put them together to create their very own stop Dinosaur Stop Motion movie. Throughout the week we will work on creating dinosaur models, learn about our GIANT friends and create habitats and storylines to bring these amazing creatures to life in our Stop Motion Adventure.	1st	4th
What Makes It Go?	What makes things go? In this camp we will experiment with how and why things react the way that they do. From futuristic car designs to harnessing the power of wind, our campers will be finding answers each day to this curiosity filled question. This will truly Rock Your Grey Matter!	Kindergarten	2nd
Forensic Science	In this interactive science camp, campers explore the art of forensic science! Learning to take a fingerprint, study a crime scene, analyze handwriting and much more! This forensic science camp is sure to capture all future forensic scientists!	3rd	6th

Spa Science	Ever wonder why the bath bombs Fizz? Why some lotions seem greasy while the others are absorbed easily? Come learn all about the science behind the lotions and bath bombs while creating awesome bath products and indulging in your very own spa experience. Lots of science while having FUN!	3rd	6th
Photography and Website Design	This camp will allow students to explore the world of photography and learning how to snap photos like a pro! Students will explore and begin to master the different photo editing software. Students will incorporate their photography in their very own website that they create to showcase their skills!	3rd	6th
Jr. Chef Academy: Appetizers and Treats	What's the tastiest part of any meal? It's the appetizers and the desserts. Come and learn how to make sweet and savory appetizers. Impress everyone with your new culinary skills learned through this appetizing camp all while learning about kitchen safety, measurements and more.	Kindergarten	2nd
Sustainable and Civil Engineering	Do you want to learn about sustainability and engineering? This is the camp for you! Come and join us in making a cool, fun and sustainable engineering project. In addition, we will explore civil engineering. Projects include city planning, model creating, and exploration of power, water and Transportation.	3rd	6th
Tinker, Build, Explore	With the new Maker movement underway, IDEA Lab Kids offers amazing opportunities for campers to innovate, design and learn process engineering. Campers are given challenges and allowed the freedom to experiment with all kinds of materials to provide innovative solutions to given challenges. This class is heavy on critical-thinking and problem solving. Imagination is the key to this class as campers Tinker and Build and Explore their way to cool gadgets and crazy contraptions.	Kindergarten	2nd
Chef Academy: Baking and Décor	In this camp, campers will utilize basic baking skills to create treats that are not only delicious, but beautiful to look at as well! Emphasis will be placed on the art and joy of baking as well as creative presentation of treats.	3rd	6th
Physics of Roller Coaster Design	Use the power of physics to experiment with your own roller coasters. Build a conceptual coaster using physics concepts used in real roller coaster design. Challenges for you and your team will include: creating multiple loops, speediest coaster, the height of hills and many more. We will learn all about the laws of physics in this class.	1st	4th
Lego Robotics: Rescue Bots	IDEA Lab Robotics provides fun, hands-on projects to get your child's creative juices flowing. Working with a Robotics teacher, campers will participate in team challenges and learn how to build robots using various LEGO programming tools- all while making friends, developing new skills and having a great time with STEAM.	1st	4th
Science of the Jedi	Get your lightsabers ready we're training new Idea Lab Jedis! Being a jedi is more than fun, it's science also! Learn how Jedis fuel and maintain their bodies. Do some fun and exciting Jedi experiments. This camp is great for the little Jedi in your life.	Kindergarten	2nd
How Stuff Works: Electrical Engineering	Have you ever wondered how electricity flows through our homes and schools and neighborhoods? In this engineering camp, Campers learn the basics of electrical engineering, how it has changed over time, power sources and many many more engineering concepts.	3rd	6th

Wizard Training Camp	Its a Bird, It's a plane, it's a flying mechanism? Campers explore the secrets of flight in this fun action packed engineering camp! Campers will learn about the science behind flight, how flying has changed the world, and the future of flight!	Kindergarten	2nd
Movie Making Studio	The possibilities are endless. We will be using our imagination and technical skills to write, shoot, and edit our movie, tv show, or news broadcast so that we can post it for the world to see.	3rd	6th
Coding and Programming: Video Game Design	Stencyl is a powerful game creation toolset, centered around an intuitive block-snapping interface. With Stencyl, students can produce their own games with graphic programming (Blocks of Code), play them on their computers and mobile devices, and distribute them for anyone to play on the iOS App Store and Google Play.	3rd	6th
Mediacal Science: Veterinarian Hospital Tour	Want to be a vet? From putting on Lab coats to learning about injuries, this camp will give you a chance to learn a bit about caring for our pets. You will get to learn about how pets' bodies work and how to care for them when they are sick! From building your own Veterinarian Kit to learning about pet care, you will learn while having an amazing time. Campers will proudly carry a veterinarian bag and the graduation certificate as a graduate of Idea Lab Vet School.	Kindergarten	2nd
3D Modeling and Printing	3D printers offer an amazing experience with art and design mixed with technology. The 3D Modeling technology allows our campers to design and manipulate 3D design models to create one of a kind designs. Work with actual 3D printers to bring your design to life and see them take shape in front of your own eyes. We provide the 3D printers - you provide the creative twist.	3rd	6th