idealab kids

SUMMER
CAMPS

www.idealabkids.com

2022

TABLE OF CONTENTS

CAMPS

Summary

When school's out, IDEA Lab camps are in session! Idea Lab Kids provides STEAM [STEM + Arts] powered camps. All camps feature our uniquely developed curricula that encourage and enable campers of all ages to learn through inquisitive hands-on activities utilizing Science, Math, Critical thinking Skills… and a great deal of IMAGINATION! Camps at IDEA Lab Kids provide tools for kids to engage in the complete design process from start to finish and learn through design-based learning methodology.

Subjects	TOTAL
Science	10
Technology	4
Coding and Programming	10
Robotics	8
Engineering	9
Visual Arts	8
Culinary Arts	9
Math	2
Enrichment	9
TOTAL	**69**

10
CAMPS

SCIENCE

Medical Science: Future Doctors   Jr.

Young campers will explore the beginning stages of becoming a doctor. From learning about digestive systems and building working models of our lungs while studying the respiration process, our Little Doctors will be engaged in learning throughout. We learn about casts, sutures and more, and we end the class with a clinic to showcase our talents. Campers will earn a graduation certificate as a graduate of Idea Lab Medical School after exploring the world of medicine, science terminology, and creative play.

Veterinary Science: Pet Vet Hospital Tour   Jr.

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.

Zoology   Jr.

Life on Earth can be found anywhere from the deepest oceans to the highest mountains, from the driest deserts to the wettest rainforests. Everywhere animals have their own unique adaptations to their environment and fulfil their niche in their ecosystem. Campers will learn about the ecosystem as well as the roles animals play in it.

Astronomy 101   Jr.

Interested in space and our solar system? About our sun, the other planets, and their moons? Asteroids and comets? Life and where we might find it? Campers get to learn about all these questions in this camp about all the wonders of our solar system.

Mix, Measure and Pour: A Scientific Journey   Jr.

Explore and compare measurements and more in this cool chemistry meet art camp. We will work on mixing and measuring all our products and create FUN scientific concoctions!

Grossology   Jr.

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!

Hocus Pocus, A Wizarding Science Academy   Sr.

Luminary. Levitation. Smouldering snakes. What do all of these have in common? Well, they are all needed knowledge to pass the Idea Lab Wizarding Exam. Using science, technology, and our imagination we will test the boundaries of what is real and what is magic, what is science and what is sorcery. Campers, keep your spell books close as you never know when you might need a touch of magic!

Genetics, DNA and Dissection   Sr.

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.

Forensic Science   Sr.

Alert! You are now a member of the IDEA Crime Unit, and we've just received intel regarding a dozen various crimes happening around the city. Before you can help the main team out in the field, you will report to our Forensics Department, where you will train yourself to master the various tactics used in solving these cases, such as composite sketches and dental forensics.

The Hall of Scientists   Sr.

The world of science would not be possible without the long list of contributions that have shaped all the different branches of the study. By now, it's easy to forget that many of these concepts that feel so commonplace first arose because of one person's curiosity. This camp finds students going back in time to identify some people whose research provided new insight on various ideas, from the well-known like Charles Darwin who created the theory of evolution to the obscure like Sir Sanford Fleming who paved the way for the worldwide time zones as we know them.

4
CAMPS
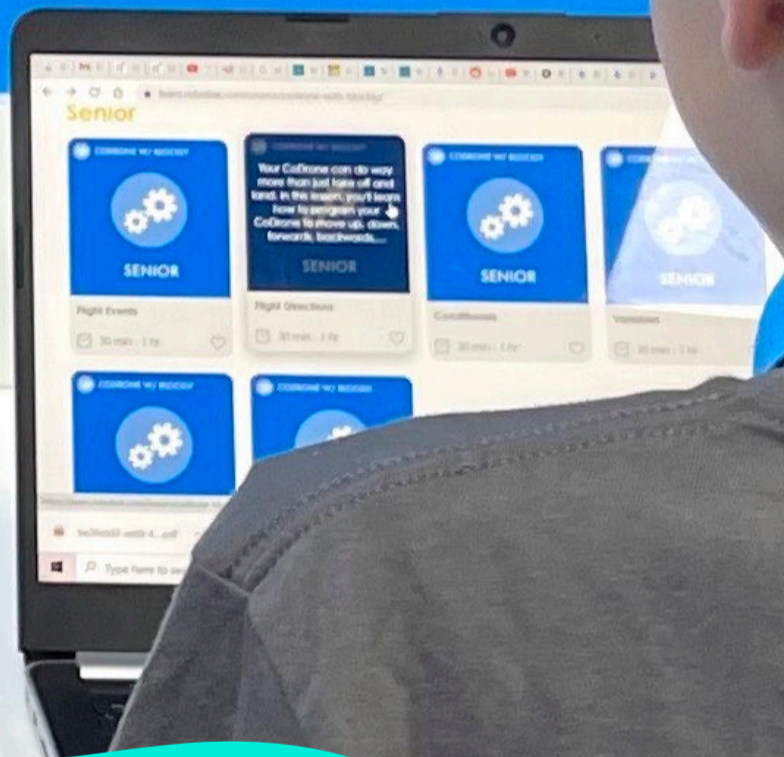
TECHNOLOGY

Fundamentals of Music Production 💻 Jr.

Students will learn to work with audio programs and build their own music track that they can then export and add online!

Stop Motion Animation Experience! 💻 Jr.

In this fun-filled animation series, campers will gain technical and artistic skills in order to collaborate with each other and create their very own stop-motion movies. For inspiration, campers will get to watch historical clips of stop-motion cinema and learn how the magic is made.

Let's Get Creative: Computer Animation 💻 Sr.

Students will use CG animation software to learn how to model, texture, rig, animate, and render a 3D character. In the end, students will have made a short film of their own creation.

Let's Get Creative: Image-Editing 💻 Sr.

Students will learn several digital-editing skills, such as painting, layering, cropping, color correcting, typography, and many more. In the end, students will have made a portfolio of digital art to showcase to parents and friends.

10
CAMPS
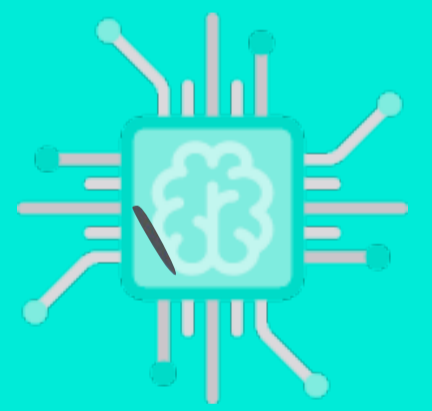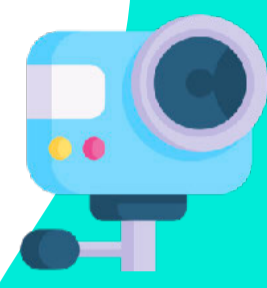
CODING

Catch The Cat, Fruit Slash, and Air Hockey Game all with Scratch [Jr.]

From coding logic to repeat and loops, camper will learn the basics of coding through Scratch in a fun interactive activity called Catch the Cat. Campers will also will create their own Scratch infinite jumper game to help jump over obstacles and become an archer by knocking targets down from the sky using their block coding skills. Campers finish the week with a fantastic in air hockey game with the computer and create a fruit slash challenge! they will use their basic knowledge of coding to help move their characters up and down to block the puck from entering in the goal and create motions to slash fruits all while ignoring the obstacles.

Space Race Track, Slithering game, Basketball, and an Impossible game with Scratch [Jr.]

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 via the Scratch drag-and-drop programming environment and work with sprites to develop working code snippets.

All in one Scratch Game Development [Jr.]

From Catching the Cat & Air Hockey to Basketball and an Impossible game to Flappy Bat and Dino Defence, campers will get to do it all. They will start with the basics of coding and move on to loops, conditions, and variables. In flappy bat, students learn about variables and velocity while in dino defense students will enhance their creative thinking to defend their home. They will learn and improve their programming skills to create creative fun games.

Roblox Game Development [Sr.]

In this camp, students will let their creativity shine while improving their programming, coding and design skills by creating basic and advanced obbies, adventure maps, and more.

Minecraft Game Development with Java [Sr.]

In this camp, students improve their Java programming and coding skills by creating, and customizing their own Minecraft modifications, swords, ores, biomes and so much more.

Build a Third Person Battlefront Game with Unreal Engine [Sr.]

Campers will be introduced to 3D game development with the Unreal engine by going through different chapters of instructions to help build a third person battlefront game.

Infinite Runner with JavaScript [Sr.]

Let's get started on a game development journey where camps will learn the basics of game development and programming through JavaScript as they create their own infinite runner and tower defense game.

Computer Science 1 & 2 [Sr.]

This course is designed to be a gentle introduction to basic programming concepts, such as algorithms, syntax, loops, and variables, through the engaging and familiar experience of a video game. Students will eventually write basic functions to start writing code to handle events--which is the basis for lots of coding patterns in game development, web development, and app development.

3D Kart Racing Using Unity Game Engine [Sr.]

Campers will be using the Unity game design engine and C# code to create an amazing 3D kart racing game and program their own check points, timers and car movement.

Game Development [Sr.]

Have fun in this introduction to game design and development through classroom discussions and hands-on programming. Students will learn the specific commands needed to make a game while navigating through the game development levels. This will culminate in a final project in which each student designs and creates their own unique game and collects peer feedback for improvement.
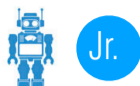
8 CAMPS

ROBOTICS

Jr. 5 - 7 years   **Sr.** 8 - 12 years

LEGO Robotics: Stomp and Chomp   Jr.

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.

Design and Build my Own Robot   Jr.

Want to build your own robot? In this camp you will be able to assemble your very own play robot! Come and make a new best friend in this robot filled camp. We will learn how Robots work and how sensors allow robots to maneuver and decide which actions to take based on the sensor inputs.

LEGO Robotics: Rescue Bots   Jr.

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

LEGO Robotic Creatures   Jr.

In this LEGO Robotic camp, campers will be introduced to a variety of tasks robotics can do. Each day campers will build and explore with LEGO gears, sensors, and more. While learning how to build with specialized parts, the campers will also begin learning how to program these pieces to move. Bringing engineering and coding together!

LEGO Mindstorms Robotics EV3: Program and Build a Rubik's Cube Solver   Sr.
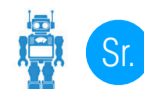
Learn to program the LEGO Mindstorm Robotics Kits to build an amazing machine that can solve a Rubric's Cube in front of your very eyes. Color sensors and more will be used in building and coding this Robot.

Graphical Coding with Vex IQ and Robot C   Sr.

Why VEX Robotics? VEX IQ is a snap-together robotics system designed to offer campers a rich and exciting introduction to the areas of Science, Technology, Engineering and Math (STEM). The system encourages teamwork, problem solving, and leadership for campers while challenging them to learn critical-thinking skills.

EV3 Programming and Coding   Sr.

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.

Build a Smart House   Sr.

Students will design, wire, and program their own miniature smart home using an Arduino microcontroller. They will create features like an elevator, automatic entry gate, thermostat, doorbell, and many more. The hands-on solutions will light up student's natural desire to explore and discover.
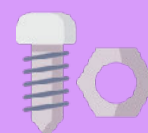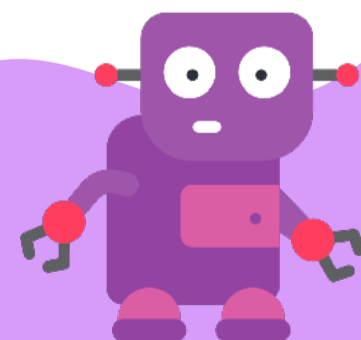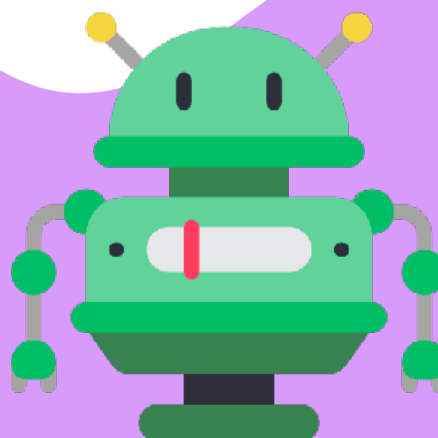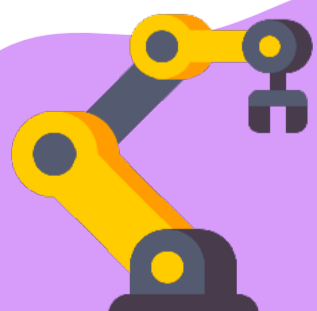
9
CAMPS

ENGINEERING

Jr. 5 - 7 years   **Sr.** 8 - 12 years

IDEA Building Company: Toy Engineering   Jr.

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.

Tinker, Build and Explore   Jr.

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 where campers will utilize their Engineering Journals to document thought-provoking hands-on activities in order to fully absorb the creative process of Engineering. Imagination is the key to this class as campers Tinker and Build and Explore their way to cool gadgets and crazy contraptions.

Shhh…Super Secret Spy School   Jr.

An elite group of recruits is lurking in the shadows preparing to take on top secret missions. No one really knows who they are, or that matter, what they are really up to. Now it is your turn to join their ranks. Day starts with top secret briefings to unfold the mission for the day. Learn about blood typing, fingerprint analysis and dental forensics to crack any case. Your training includes building lie detector machines and creating composite sketches. At the end of the week, use your training to secure a crime scene, gather clues and process evidence in the crime lab. A great camp full of hands-on activities for the budding detective.

Jr. Engineering Society: Architecture   Jr.

Arches, Buttresses, and domes are all architectural features that also require engineering to understand why they work. Campers will learn about architectural features and the engineering behind why they work.

How Stuff Works: Electrical Engineering   Sr.

Have you ever wondered how electricity flows through our homes and schools and neighbourhoods? 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.

Sr. Engineering Society: Ancient Engineering   Sr.

Students will learn about several innovations that were created in ancient times, like Hero's aeolipile (mini steam engine), the sun dial, Archimedes screw, etc., and recreate these experiments, learning in the process just how ingenious ancient thinkers were!

The Invention Lab   Sr.

Come explore your inner Engineer. We will take things apart while designing and engineering new things that move, roll or do something unique. Whether it's a brand new gadget or tweaking of something old, we will work on cool projects such as creating lightsabers that actuality light up to creating a robot that waves goodbye. It's all up to your imagination.

Kinetic Design: Where Engineering Meets Art   Sr.

Art and Engineering meet in this fun camp that allows you to refine your creative skills through art and engineering. Create fun projects that make you think and get your creativity flowing!

Drone Engineering with 3D Printing   Sr.

Students will experience it all from creating their own 3D model frame to putting together the electronic components to piloting their customized drone. Learning how to build a complete fully functional remote controlled quadcopter which flies and takes aerial photos. Additional kit cost $50.

8
CAMPS

VISUAL ARTS

Jr. 3D Art Factory — Jr.

During the IDEA Lab Kids' 3-D Art Factory Camp, our campers jump off of the 2-D page and explore the world of 3-D sculpture, 3-D illusions, and 3D creations. You will be amazed by what Idea Lab can inspire within your child. What better way to build art esteem with an Ideal Lab art camp?

Time Travelers: Adventures on the Amazon — Jr.

Take a wild journey onboard the IDEA Lab Time Machine as we travel to the Amazon and explore the Art, Science and Imagination of the Mighty Amazon.

Art Around the World — Jr.

Students will embark on a journey around the world filled to learn about different art periods, and a diverse array of art works. We will explore from ancient classical art to contemporary art in order for students to try to recreate some of the most popular works of art. Students will learn about famous artists such as Klimt, Monet, da Vinci, Van Gogh, Vermeer, Van Eyck, Picasso, Kahlo, Katsushika, and many others.

Messy and Crazy Art Project — Jr.

Mushy and messy creative explorations for the child who loves to get their hands goopy! Children will brew recipes for all sorts of paints, clays, blubbers and slimes, and other marvelous art mixtures, all the while learning about the properties of ingredients and what they can do when combined. Children will have the chance to play nutty professor, create their own concoctions and play with them all!.

Fundamentals of Art — Sr.

Explore the fundamentals of art, where shapes, lines, and patterns come together to create masterpieces. Learn how artists use their emotions, feelings, and inner thoughts to develop still life compositions, 2D and 3D models, and a viewfinder. Campers will practice receiving and giving critique in the final art reception gallery.

Let's Draw Comics! — Sr.

BOOM! POW! ZAP! Calling all cartoonists! Campers will be introduced to the world of cartoons by exploring how to create a comic book, perspective, landscape, and more! Learn how different cartoons use different art forms and mediums to creating a final comic book! Let's get animated!

3D Art Factory — Sr.

During the IDEA Lab Kids' 3-D Art Factory Camp, our campers jump off of the 2-D page and explore the world of 3-D sculpture, 3-D illusions, and 3D creations. You will be amazed by what Idea Lab can inspire within your child. Explore all kids of 3D projects that bring out your inner Picasso.

DIY Design: Home Decorating — Sr.

Students will learn to create home decorations by using, and expanding their creativity through critical thinking skills. They will create simple home decorations that may seem complex. Once they are done with this camp students will be able think, and create different possible decorations out of just simple materials.

9
CAMPS

CULINARY ARTS

Jr. 5 - 7 years   **Sr.** 8 - 12 years

I Can Make My Own Meal Series: Vegetarians
Jr.

Do you just love vegetables? Vegetables are known to be a side dish but in this camp, students will learn how to make vegetables be the star of the show: main course. Students will dice, chop and sautée our favorite vegetables and add flavors they never knew they could.

Breakfast Around the World
Jr.

What do you have for breakfast? Breakfast is the meal that fuel everyone needs for the day. Campers will travel around the world to see what other cultures have for breakfast. Grab your chef hat and coat we are ready for this adventure.

Jr Chef Academy: Appetizers and Treats
Jr.

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.

Jr Chef Academy: Storybook Cooking
Jr.

Take a journey with us on our cooking adventure! In this cooking class our budding chefs will learn about measurements, mixing techniques and great recipes. A recipe card follows each recipe so that our budding chefs can create their own recipe book. Each day follows a classic children's storybook and yummy recipes related to them. Campers will jump from story to story, discovering ways to cook unique recipes. Be sure to come with an empty stomach, and a mind filled with curiosity. We'll eat happily ever after.

Fizz, Pop, Crackle: Culinary Chemistry and Edible Science
Jr.

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? Join our Idea Lab scientists as we mix, measure and pour messy and crazy creations. Put on your apron AND your lab coat -- let's get messy.

Jr. Baker's Workshop
Jr.

Come and learn about the science of baking in this sticky, yummy camp! You will gain a lot of experience in baking lots of different sweet treats!

Chef Academy: Passport Around the World
Sr.

Come and journey around the world in a week without ever leaving our IDEA lab kitchen. An engaging week of cooking and learning scientific fundamentals behind the food we love to eat. Go abroad on an exciting journey of culinary experiences from around the world. Learn cuisine from a different country each day including naan from India and handmade pasta from Italy. Aprons On!

Passport Around the World II
Sr.

Are you ready to prepare international dishes? Students will travel all around the world to enhance their cooking skills and expand their tasting pallet. Students will develop an understanding of each and every dish they prepare throughout the camp. Now grab your chef hat and coat! This plane is ready for departure.

Food Favorites
Sr.

Chefs are you ready to prepare breakfast , lunch, dinner and dessert staples? These dishes have became popular throughout the years and with your new skills and knowledge of the kitchen, you are able to conquer these recipes with ease.

2
CAMPS

MATH

Becoming a MathEmusician   Jr.

Learning about math and music thru activities that incorporate both. Connecting fractions with musical rhythms and time signatures. Creating songs using mathematical formulas (easier than it sounds). Learning notes by associating them with number values.

Sports + Math   Sr.

In this exciting camp, students will learn multiple different aspects of math and apply them to different sports. Through basketball they will learn the basics of probability. Through baseball and tennis they will learn different geometric principles. Students will learn that math is used in everything including sports, and other activities they enjoy.
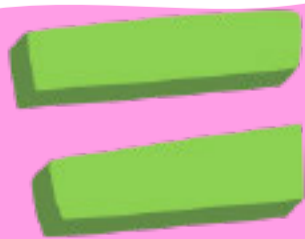
9
CAMPS

ENRICHMENT

Time Travelers: Age of Dinosaurs   Jr.

Many centuries ago the land of IDEA was home to scores of species of dinosaurs. Evidence of these amazing beasts can be discovered in our very own dinosaur ridge. Spend the semester learning about these amazing beasts, 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.

Camp Millionaire   Jr.

Jump on the IDEA Lab time machine and land in the Students will learn the basics of accounting and finance, as well as, the importance of budgeting, and investing to increase wealth. Students will also learn, and expand on simple mathematics such as addition, subtraction, multiplication and division to become successful in managing their money.

Jr. STEAM Club   Jr.

For the first year ever, campers will dive into all five disciplines of STEAM by engaging in activities that give them a more comprehensive understanding. They will explore the world of microbots when they create a maze for a hexbug. They'll get a glimpse of structural engineering, as they create their own simplified Rube Goldberg machine. They will also begin to explore the reaches of fine art, as they start to develop analytical skills by evaluating each other's art.

Graphic Design   Jr.

Students will create a fictional event (like a dance party on Mars) and then design their own marketing materials, like brochures, flyers, and business cards for the event.

Galaxy Far Away   Jr.

Welcome to your training, young Padawan. While at the Temple, you will go through many trials before you master the ways of the Force. You will learn how to create a Kyber crystal, which powers your lightsaber, and design your own droid to compete against others. You will even travel to distant planets like Tatooine, where you will spend 2 nights crafting your own Jawa with lit up eyes. Make it through the end, and you will earn the rank of Jedi Knight.

The Art of Language   Jr.

Starting with Sumerian cuneiform, Egyptian hieroglyphs, Chinese logograms and characters, then moving to the phonecian alphabet, Arabic numerals, and written languages, and finally codes like Morse, Braille, and binary (the language of computers), students will explore the different ways symbols can express meaning and how different languages can be constructed. Experiments include writing cuneiform in clay, drawing hieroglyphs on "papyrus" (make your own paper experiment + drawing), doing calligraphy with ink and brushes, writing a message in Braille using small grains and glue on paper, sending a message in Morse using light or sound, and finally even creating your own language/alphabet.

How to be a Youtube Success   Sr.

Campers will understand the ins and outs of YouTube and what makes certain content POP, create their own content to upload, and ultimately understand how the algorithm works in order to see if in the future they want to try and make money from the platform. Campers will create and edit their own videos, and collectively examine a YouTube channel to understand how to manage its data and analytics.

Theatre 101   Sr.

Exploring the three basic facets of theatre; acting, writing, and tech. Acting games: improv, solo, partner and group scenes. Learning speech and acting skills.Writing exercises: learning script writing techniques Tech demonstrations: learning about props , costumes, lighting, sound and set designs.

Sr. STEAM Club   Sr.

Campers will dive into all five disciplines of STEAM by engaging in activities that give them a more comprehensive understanding. They will see the idea of conductivity firsthand, as they generate electricity from a simple coin battery. They will be at the forefront of an evolving industry, as they make their own micro budget films. They will also study the idea of force in a fun way, as they create their own ping pong ball launchers.

FAQ'S

REGISTRATION

How can I be sure I can get the camp I want?

Our camps fill up on a first-come, first-serve basis, so the sooner you register, the better.

I see your camps are by age. Can I enroll my 7-and-a-half-year-old child in a senior full day camp?

Yes, if your child is turning 8 years old within three months of the camp. This applies to all age groups.

Where can I find your cancelation policy?

Our cancelation policy can be found in the confirmation email you received when you registered.

CAMP DAY

May parents stay in the classroom?

We do not encourage parents to stay, as this impacts all the children in the camp.

Are the teachers trained?

Yes, all camp teachers are trained to teach the curriculum.

How are campers supervised?

Campers are supervised by our staff and teachers. Our ratio is 1:12.

In your technology camps, do I need to send my child with a laptop or tablet?

No, the IDEA Lab Kids facility will provide the technology and all supplies needed for the camps.

Can I order lunch from you?

Yes, you can order lunch in our portal, or bring lunch from home. Keep in mind, IDEA Lab Kids is a peanut-free facility.

DROP OFF AND PICK UP

At what time can I drop off/pick up my child?

You should arrive no earlier than 15 minutes before the camp starts, and pick up campers within 10 minutes of finishing the camp.

Can a relative/friend/neighbor pick up my child?

Yes, but you need to add them in person as an authorized party to pick up your child. ID's will be verified.

Do you provide Before and After Care?

Yes, Before and After Care is provided for an additional fee. You can select it as an add on option when registering.

COVID-19 PROTOCOLS

What precautions regarding PPE are you taking for students and staff?

We are following CDC guidelines, our instructors are also wearing gloves and masks.

What are your cleaning supplies and methods?

We're doubling down our efforts to clean and disinfect frequently touched objects and surfaces in our campus. We are using multi-surface cleaners that kill 99,9% bacterias & viruses.

What is your refund policy?

Any cancellations due to Covid-19 will be credited to the family account for future transactions.
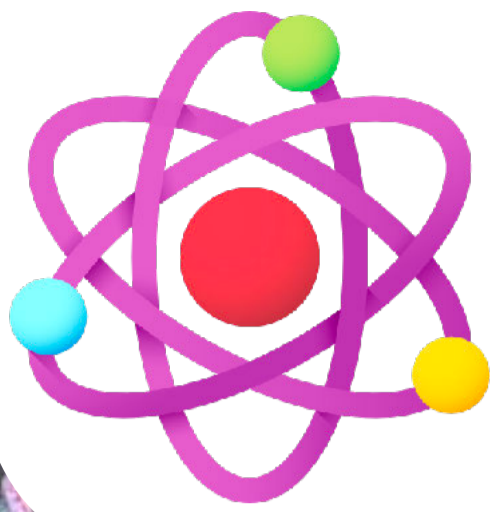
SUMMER @ THE LAB!

What IDEA stands for?

I MAGINE

D ISCOVER

E XPLORE

A CHIEVE

4201 Main Street, 200
Houston TX, 77002
Office #52

(281) 982-5126   **f** @idealabkids   🐦 @idealabkids   📷 @idealabkidstx