



Summer Registration



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**YOUTHSCIENCECENTER**  
*Inform. Instruct. Inspire*

# **SUMMER SCIENCE DISCOVERY PROGRAM**

June 5 - July 7

*Online Registration*  
*Kinder - 8th Grade*

## **2023 Summer Schedule**

**Classes held at  
Bixby Elementary School**

16446 Wedgeworth Dr.,  
Hacienda Heights, CA 91745  
[youthsciencecenter.org](http://youthsciencecenter.org)

## June 5 -June 9 (Week 1)

Time	Grade Level	Class Title	Subject	Description	Member	Non-Member
8:30 - 11:45	K-2nd	Ocean's Wild	Marine Biology	Put your mask on and come and explore the amazing and wild world beneath our ocean's surface. Learn about underwater canyons, animals and plants and even get to see some of these wonderful and wild creatures and plants up close.	\$129	\$140
		Codemoji: Jr. Website Developer	Computer Science	Learn the basics of web development and coding, such as HTML, in a fun and easy way, allowing kids to create their own websites.		
	3rd-5th	New! Ancient Science: Mysterious Artifacts	Anthropology	Dig into the science of ancient times and unearth amazing discoveries! You will be creating artifacts, such as mediums to draw on, historical maps to navigate, and the Egyptian pyramids? Discover the mysteries behind mummies, skin and food preservation, shrunken fruits, and more.	\$129	\$140
		Website Development	Computer Science	Learn the basics of web development and coding, such as HTML, in a fun and easy way, allowing kids to create their own websites.		
	6th-8th	3D Laser Cutting & Woodworking	Carpentry, Graphic Design	Carpentry and graphic design-the perfect marriage! Students will not only learn to use hand tools and power tools safely and make a wooden pen to take home, but also learn graphic design skills with the use of Inkscape and the iconic 3D Laser Cutter to make incredible 3D art from just about any material at the push of a button.	\$138	\$150
12:30 - 3:45	K-2nd	Trash to Treasures Crafts	Environmental Science	Become a young environmentalist and learn how upcycling can free up space in our landfills, how it can prevent trash from reaching our waterways and of course how to turn old and used "trash" into "treasures". Take a bunch of unused household items and create beautiful art, create innovative home decorations and build great practical everyday items all while learning about our environment and how to preserve it.	\$129	\$140
	3rd-8th	Roblox Lua Coding	Computer Science	Curious about entering the world of computer science? Learn Lua - one of the most popular languages for video game programmers using the hit platform Roblox! Students will use Roblox Virtual Studio graphical and Lua-scripting capabilities to learn the basics of building a graphical interface and writing simple code. Watch your creations come to life! No experience necessary!	\$138	\$150
	5th-8th	3D Printing: Modern Vehicles	Graphic Design	Learn additive manufacturing (3D printing) and spatial reasoning using cutting edge tools required to create 3D designs and how to efficiently use computer aided design software to produce your projects. Use your imagination to give a unique touch to your personalized 3D printed modern vehicles.	\$138	\$150
4:00 - 5:30	K-8th	The Science Behind Magic Tricks	Physics	Come discover the magical, surprising science in our world! Defy the forces of gravity, investigate optical illusions, experiment with sound makers, mix colors without touching them, and "see" invisible forces at work! Learn the magic behind the exciting world of physics!	\$65	\$70
	3rd-8th	Minecraft: Green Engineering	Entertainment Technology	Use your creative and critical thinking skills to learn about Green Engineering through engaging activities specifically developed to promote learning through playing the popular game, Minecraft.edu.	\$69	\$75

\*Listed member prices reflect a discount of approx. 8%. Lifetime will receive 10% discount. Your discount will be applied during checkout

## June 12-June 16 (Week 2)

Time	Grade Level	Class Title	Subject	Description	Member	Non-Member
8:30 - 11:45	K-2nd	Critters in the Classroom	Entomology	Are you fascinated by the world of bugs, or are you interested in their habits and their life cycles, or just plain curious about them? Come join us and learn about different bugs and how they are an indispensable part of our ecosystem. The best part is that you can even get to take some of these critters home!	\$129	\$140
		Coding Robots: Robo Fun	Computer Science	Learn basic programming rules to maneuver your hand-held robot, Dash, through various types of mazes, obstacle courses, and terrains. Watch and physically handle Dash as you program it through various challenging levels using the Wonder app. Learn the basic principles of physics required to maneuver Dash.		
	3rd-5th	New! Misty and Smoky Special Effects	Physics	Create cool special effects with dry ice and fog machines. Learn the physics behind this special type of "ice" and the misty fog created by fog machines. Are you ready for a SMOKEtacular and FOGtastic experience?	\$129	\$140
		Pokémon STEAM Challenge	Entertainment Technology	Hey there, all Pokémon Trainers! Come join us and learn the science behind your favorite Pokémon along with their type weaknesses, resistance, and immunities and how they relate to the real world. Then get ready to choose your favorite Pokémon and have a virtual battle with your classmates to get your body moving. Finally, wind down from all that battling and learn to draw your favorite Pokémon. Pokémon Trainers are passionate about their Pokémon, so we will definitely make some time for show and tell and sharing of Pokémon knowledge...who knows, you might even learn something new. You'll definitely get a well rounded experience in this class, you will learn science, get some exercise, learn to draw, and learn more about Pokémon! So, who's up for the Pokémon STEAM challenge?		
	6th-8th	3...2...1..Blast Off! Model Rocket Launch	Physics	This class explores fun experiments that teach how to build mind-blowing projects, each designed to show how mechanical science and astrophysics work. We'll use everyday items to build awesome rocket ships, paper spinners and mobile rocket launch pads, all while learning concepts like Newton's Third Law of motion, speed, gravity and air resistance. Kids learn to make scientific observations, identify and classify their questions, all while investigating aerodynamics.	\$138	\$150
12:30 - 3:45	K-2nd	CSI Jr.- Spy Lab	Forensics, Criminology	Ever dream of being on a CSI team? Using powers of logical deduction, through analyzing powders and liquids, studying and comparing fingerprints and other clues, interviewing suspects and witnesses, your child will collaborate with a team to solve a mystery. Your child will be using the same strategies as the big kids and professional crime solvers! The problem solving techniques and strategies learned in this class will be able to transfer to other areas of their education in the future. It's a new mystery each year so children can come back summer after summer.	\$129	\$140
	3rd-8th	New! Surviving a Zombie Apocalypse	Molecular Biology	Your community has been overrun by zombies, how would you protect yourself from the zombies? In this class you will learn methods to counteract contagious diseases and viruses through the study of viruses like a CDC expert but also through developing life saving skills in an environment where resources are scarce. Here are just some of the survival skills you will learn: how to make contaminated water drinkable, how to make shelter, how to make a compass, how to make a solar oven, how to find food, and much more.	\$129	\$140
	5th-8th	Arduinos: Microprocessor Programming	Computer Programming	Have you ever wanted to get creative with technology? Well, in this class, whether you have no experience or are a tinkerer, artist, programmer, hobbyist, or just plain curious, then this class is for you as you will be able to bring your electronics imagination to life by learning the Arduino board, programming language, and software, which will enable you to plan and build projects. Skills in prototyping, soldering, and coding will continue to improve throughout the class. Students will build digital and interactive projects that can sense and control objects in the physical world and the best part is, you can take home your Arduino kit for further exploration. Good for beginners and repeating/intermediate students.	\$138	\$150
4:00 - 5:30	K-8th	Edible Science	Chemistry	Eat your science experiment? Yes! In this class you will learn the science behind some of your favorite sweet foods and even eat them!	\$65	\$70
	3rd-8th	Minecraft: Chemistry	Entertainment Technology	Use your creative and critical thinking skills to learn about Chemistry through engaging activities specifically developed to promote learning through playing the popular game, Minecraft.edu.	\$69	\$75

## June 19 - June 23 (Week 3)

Time	Grade Level	Class Title	Subject	Description	Member	Non-Member
8:30 - 11:45	K-2nd	It's a Wild World	Biology	Come and explore amazing and wild animals. Learn about wild animals and how they survive, learn about their behavior, where they live, and what you can do protect these wild and wonderful animals.	\$129	\$140
		Coding for Kids	Computer Science	Join us for exciting new activities that will teach kids essential critical thinking skills, including identifying and solving "bugs", following and predicting a set of instructions, and decomposing a problem into smaller steps by playing online coding games on an iPad. To finish it off, students will make an actual board game of their digital creations.		
	3rd-5th	Lego EV3-Get Ready for Mars	Computer Science	In this introductory robotics class, you will go through a series of training exercises to guide your robot in solving real-world engineering challenges related to renewable energy on earth. Now we are ready for our trip to Mars where 7 STEM challenges await! Good for returning students as they will build upon the knowledge they have already learned.	\$129	\$140
		Art Around the World in 5 Days	Art	It's time to give your computer mouse a break and take out your art supplies! Come join us for an hour long multi-cultural art class, where you will draw folk art from different cultures, such as Japanese Mingei art, Chinese Gong-bi art, Mexican artesanias, Egyptian art, Sri Lankan traditional art, and many more. Come discover the amazing world of art around the world in 5 days!		
	6th-8th	New! Criminal Forensic Technology and Science	Forensic Science	Have you ever wondered how criminals are caught using laboratory techniques? Come and learn the physical basis of how blood typing is performed using an artificial blood typing kit (find out your blood type with parent permission), use plant pigmentation to identify the location of the criminal, use electrophoresis gel to extract DNA information to identify the suspect. Your child will be learning high school level laboratory curriculum and meeting high school Next Generation Science Standards.	\$138	\$150
12:30 - 3:45	K-2nd	That's Gross Don't Eat That...	Anthropology General Science	What's yummy to some cultures is just plain weird to others. Come see, feel, smell, and even taste some exotic foods from other cultures. Make cheese, bugs, a model of the stomach and the esophagus, and much more. This class changes and varies it's foods and cultures each year so children can return summer after summer and still make new discoveries!	\$129	\$140
	3rd-8th	New! Clay Engineering	Engineering	Learn the properties of clay soils by creating your own clay, building structures with it, such as highway overpasses, tunnels, bridges, and etc. Then test their conductivity, strength, flexibility, and buoyancy.	\$129	\$140
	5th-8th	3D Laser Cutter & Engraver: Personalized Gifts	Graphic Design, Animation	Learn spatial reasoning using cutting edge tools required to create 3D designs and how to efficiently use computer aided design software to produce your projects. Use your imagination to give a unique touch to your personalized 3D laser and engraved printing projects.	\$138	\$150
4:00 - 5:30	K-8th	Animal Explorers	Biology	Students will learn about the principles of science all while learning about insects, spiders, lizards, mammals, and much more!	\$65	\$70
	3rd-8th	Minecraft: Biodiversity	Entertainment Technology	Use your creative and critical thinking skills to learn about Biodiversity through engaging activities specifically developed to promote learning through playing the popular game, Minecraft.edu.	\$69	\$75

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## June 26 - June 30 (Week 4)

Time	Grade Level	Class Title	Subject	Description	Member	Non-Member
8:30 - 11:45	K-2nd	Bubbleology	Physics	Burst into the world of "bubbleology". Learn the physics and chemistry behind bubbles, such as surface tension and why bubbles are round, float, stretch, and pop. So, get your bubble wands ready to make and learn about bubbles!	\$129	\$140
		Codemoji: Beginning JavaScript	Computer Science	Learn the basics of JavaScript development and coding in a fun and easy way. Students will move at their own pace to learn coding concepts and apply them strategically to enhance basic web development skills.		
	3rd-5th	Balloon Engineering	Engineering	Engineer some fun by learning about fish and human physiology; engineer creative aerodynamic vehicles and launchers; and engineer fantastic durable arch structures all with the use of your critical thinking skills, fine motor skills, and you guessed it, balloons!	\$129	\$140
		Coding Robots: Robo Engineering	Computer Science	Use your creative thinking skills and your competitive nature to race your robots, to complete the balloon popping challenge, and to battle your robot gladiators. Then use your engineering skills to create strong structures for your robots to safely maneuver through in this fun robot engineering class.		
	6th-8th	Plant and Animal Dissections	Biology	Have you ever wanted to know how organisms and plants work from the inside? How the structure of a organism and a plant help it survive in the wild? Come be a biological researcher and explore how things work through dissection! Students will explore the inner workings of 5 different animals and plants in this hands-on minds-on class.	\$138	\$150
12:30 - 3:45	K-2nd	Slimy Science	Chemistry	Like things that ooze, things that are squishy, things that are icky, and things that are slimy? Then come join us and learn the chemistry behind many different types of slimes all while making and experimenting with slime!	\$129	\$140
	3rd-8th	Survival Anatomy	Anatomy	Can your blood really poison you? How hot is too hot? How does adrenaline help you? How are respiratory illnesses transmitted? These and other physiological questions will be answered in this Survival Anatomy class...would you know what to do in a survival situation?	\$129	\$140
	5th-8th	Medical 3D Printing	Biotechnology	This class is based on the pioneering work of Dr. Ahmed Ghazi, in which 3D printed organs are printed so that doctors and medical students can practice on. In this class, students will create an organ mold via computer aided design and then create their own hydrogel, which will eventually become the artificial organ.	\$138	\$150
4:00 - 5:30	K-8th	Painting with Food	Chemistry	In this colorful and edible class, students will create colorful art with foods, artistic designs with their own natural food dyes, create self portraits and beautiful landscapes with condiments and spices, and much more.	\$65	\$70
	3rd-8th	Minecraft: Farming	Entertainment Technology	Use your creative and critical thinking skills to learn about Farming Technology through engaging activities specifically developed to promote learning through playing the popular game, Minecraft.edu.	\$69	\$75

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## July 5 - July 7 (Week 5) **No class on July 3 & 4**

Time	Grade Level	Class Title	Subject	Description	Member	Non-Member
8:30 - 11:45	K-2nd	Digging up Dinos	Paleontology	Explore the world of dinosaurs as you go on a fossil hunt, put together a model dinosaur skeleton, learn to create fossil molds, excavate your very own fossil, and more! You'll have a "roarin" good time!	\$78	\$84
		Digital Musicians Lab	Entertainment Technology	Want to create your own music? Do you want to "see" music and sounds? Well in this class you will get to do that and also learn about harmonics, strings, melodies, chords, arpeggios, sound waves, and rhythm. You will make your own songs and learn about music and the science behind music.		
	3rd-5th	New! Take Charge! Thunderbolt	Physics	Can you harness Pikachu's' thunderbolt powers to overtake others and continue your quest for the next battle? Well in this class you will learn about the different types of electricities that exists and whether or not you can use your electrical powers to make balls dance, to levitate objects, and to even shock your friends.	\$78	\$84
		Graphic Designers: Emoji Makers	Physics	Are you an artist, doodler, or sketch artist? Do you love sharing your funny and hilarious digital artistic creations? Do you have an eye for color patterns and designing? Do you wish to inspire and captivate your family and friends? If the answer is yes to any of these, then come learn how to create clipart and edit pictures using graphic designing computer skills. Then share your masterpieces with your family and friends. So come join us for some imaginative and creative digital drawing!		
	6th-8th	Handyman's Workshop: Electrical Devices	Electrical Engineering	Learn to become a handyman at home and help with simple electronic home repairs. Learn how to solder and identify components to build a fun take-home project. Emphasis will be placed on reading a schematic diagram and handling tools safely.	\$83	\$90
12:30 - 3:45	K-2nd	Newton Ninjas	Physics	Get ready to dive in to physics and learn about invisible forces, gizmos and gadgets that explain how we view nature, forces that "fight" each other, and understand the basic principles of physics by learning about famous physicists, such as Sir Isaac Newton, Albert Einstein, Niels Bohr and many more in this hands-on powerful physics class.	\$78	\$84
	3rd-8th	Sports Science	Sports Science	Why are your feet the most important piece of complex sports equipment? Come jump, run, climb, kick and study the science behind many of the sports we play and how we play them. You'll learn about how your body works, learn to improve your sport as well as your performance and have fun keeping busy and physically active!	\$78	\$84
	5th-8th	3D Laser Cutter: Interlocking Objects	Graphic Design	Learn spatial reasoning using cutting edge tools required to create interlocking 3D objects and how to efficiently use computer aided design software to produce your 3D projects. Use your imagination and engineering skills to personalize your 3D laser and engraved 3D objects for either functional home use or for leisure.	\$83	\$90
4:00 - 5:30	K-8th	Mind Games Jr.	Neuroscience	Come and explore all new amazing mind tricks, puzzles, and brain teasers. Learn why your brain does what it does and much more in this incredibly mind blowing class.	\$39	\$42
	3rd-8th	Minecraft: Creative Design	Entertainment Technology	Use your creative and critical thinking skills to learn about Creative Design through engaging activities specifically developed to promote learning through playing the popular game, Minecraft.edu.	\$42	\$45

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# YSC Registration, Payments and Cancellation Policy

## How Do I Register?

### Online

1. Go to [www.youthsciencecenter.org](http://www.youthsciencecenter.org).
2. Click on the "Summer Science Discoveries" button.
3. Please view our tutorial video or document for a step-by-step guide on how to register your children.
4. Click on the link "Register Now!", select "Details" to see class lists, descriptions, and availabilities, click on "Register" button to start class registration, and pay using the online system's prompts.
5. A class confirmation will be sent to you via email automatically once registered via the online system. We regret that we are not able to confirm classes by telephone.
6. For more information regarding registration, please email Elaine Chiu at [elaine@youthsciencecenter.org](mailto:elaine@youthsciencecenter.org). For more class information, please call Diana Padilla at (626) 588-7818.
7. We will post a list of classes closed due to full enrollment on our website.

## When Should I Register?

Registration is first come, first served. Register early to avoid disappointment.

## What Age Must My Child Be to Participate?

Grade level is listed on the class schedule. This is the grade your child will be entering in September 2023. Preschool Students must be 4 years old as of September 2022 and must be registered as a kindergartner or above for the September 2023 school year.

## Where Are the Classes Located?

Bixby Elementary, 16446 Wedgeworth Drive in Hacienda Heights. (Across the street from Wilson High School and about 5 minutes West of the Puente Hills Mall.)

## What Happens if I Register Late?

Those who register after the first day of class are considered late. Late registrants will be charged \$5.00 per class.

## What Payment Options Do You Accept?

We accept credit, debit, PayPal, and check payments online. Please note that any bounced checks will be charged a \$35 service fee.

## Am I a Member or a Non-Member?

Unless you have previously purchased a lifetime membership, your previous membership expires on March 1, 2023. Please note that your membership is good for our **After School Classes** as well. If the Youth Science Center program is not at your school yet, please ask your school principal or contact Diana Padilla at 626-588-7818. **Please make sure to use the same email address for both membership purchase and class registration checkout.**

## Do I get a Sibling Discount?

You can purchase the Family membership (2 or more children from the same household) to get 8% discount for \$65.

## What is Your Cancellation and Change Policy?

No cancellations and changes will be accepted over the phone. Cancellations 96 hours before the first day of class will be given a full refund in the original form of payment. Cancellations within 96 hours of the first day of class will be issued class credit for the 2023/2024 summer program minus a \$30 processing fee per class. No cancellations will be accepted after the class begins. Please allow 5-7 business days for any refunds. A \$5 processing fee will be charged per class if any class changes are requested 96 hours before the class starts. If you must cancel and make changes for your registration before the class starts, please email Elaine Chiu at [elaine@youthsciencecenter.org](mailto:elaine@youthsciencecenter.org).

## Parent Information

**Your child's safety and comfort are extremely important to us. In order to provide a safe environment for our students, we ask you to read through our rules with your child.**

### Pick up:

Let your child know where you will be picking him/her up. It is suggested that you park and pick up your child from the center.

### Lunch Time Supervision:

Any child who is enrolled in **BOTH** morning and afternoon classes of the same week will be supervised during lunch time. Activities will be provided when the students have finished eating. There is no additional charge for this supervision. If your child does not have a 12:30-3:45 class and you would like for us to supervise your child during lunch (11:45-12:30), then you will need to pay a \$20 lunchtime supervision fee per week (\$12 on the 5th week). Thank you for your cooperation.

### Lunch and Snacks:

Students must bring their own lunch. We do not provide microwaves for the students and will not have lunch available for students to purchase. YSC Snack Bar will be open during recess time and lunch break for purchasing snacks and drinks. Students can also bring their own snacks. Sharing snacks is not allowed. Please avoid snacks/lunch that contain nuts. Thank you for your consideration and support in keeping the food-allergic child safe from having a life-threatening allergic reaction at school.

# YOUTH SCIENCE CENTER

## Mission

Established in 1962, the Youth Science Center (YSC) is a non-profit organization dedicated to improving math and science education. The mission of the Youth Science Center is to inform, instruct, and inspire our youth to discover the excitement of science and technology through innovation and hands-on experience.

We have built a reputation for presenting quality science, math, and computer, classes for students grades K through 8th living throughout Los Angeles County's San Gabriel Valley.

## Science Center Summer Staff

Diana Padilla, Project Manager  
Lana Willis, Principal  
Elaine Chiu, Registrar

## Officers & Board Members

Ron Chong, *Chairman*  
Stan Liu, *Vice Chairman*  
Philip Teders, *Treasurer*  
Victor Wu, *Secretary*

Scott Bevans  
Maanas Bukkuri  
Bruce Davis  
Brian Mayhall

## 2023 SUMMER PROGRAM | JUNE 5 - JULY 7 8:30 am - 5:30pm | Kinder to 8th



Summer Camp location  
Bixby Elementary School  
16446 Wedgeworth Dr,  
Hacienda Heights, CA 91745

Contact Information  
[www.youthsciencecenter.org](http://www.youthsciencecenter.org)  
[diana@youthsciencecenter.org](mailto:diana@youthsciencecenter.org)  
(626) 588-7818

Youth Science Center  
Nonprofit 501(c)3 Organization  
Federal Tax ID: 95-2273238



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