

California **ScienCenter**



SUMMER  
**2019**

Hands-  
**On**  
Science  
Camp



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## WELCOME TO SUMMER 2019

**Enroll your child today for a fun and engaging summer of science and exploration!**

Exciting explorations, delightful discoveries and wild wonders await your child this summer at the California Science Center's Hands-On Science Camp. Hands-On Science Camp offers weeklong day camps for children in **Pre-K through 10th grade** with more than 30 courses investigating **physics, chemistry, biology, space and Earth sciences**. Camp is staffed with trained educators that hold degrees in science and/or education and working professionals from a variety of science fields.

Hands-On Science Camp takes place in the **Wallis Annenberg Building for Science Learning and Innovation**, which houses cutting-edge classrooms, and the **Big Lab**, a 32,000-sq-ft learning environment containing four major experimentation platforms for investigation and exploration.

Campers also explore the **California Science Center** where they experience the wonders of science through interactive exhibits and live demonstrations in three hands-on galleries — **Creative World, Ecosystems, and World of Life**, as well as our newest exhibit experience, the **Samuel Oschin Pavilion**, which features the **Space Shuttle Endeavour** and **ET-94**, the world's last remaining flight-qualified space shuttle **External Tank**.



## ENROLLMENT DATES

**Members:** February 11, 2019

**Non-Members:** February 19, 2019

**Scholarship Applications:** March 4, 2019

## SCHOLARSHIPS

Hands-On Science Camp scholarships are generously provided by donors including The John Randolph Haynes and Dora Haynes Foundation, The Karsten Family Foundation, Laird and Rebecca Malamed, Sandra G. Malamed, The Renken Family Science Camp Endowment, The Sidney Stern Memorial Trust, and THE MUSES of the California Science Center Foundation. We welcome you to join us and make a gift of science learning by providing scholarship opportunities to children and youth in need. For more information about eligibility, or to make a contribution to the Hands-On Science Camp scholarship fund, please call 213.744.7444.

### THE MUSES

of the California Science Center Foundation



# HANDS-ON SCIENCE CAMP CATALOG

# SUMMER 2019





# LITTLE LEARNER PROGRAMS (PRE-K)

## ME, MYSELF, AND I

Look at yourself from the inside out. Take an adventure through your body and learn all about the parts that make you YOU! Become the subject as you investigate everything from your five senses to the sound of your own heart. You'll get to visit Tess, our 50-foot body simulator, along with her cartoon pal, Walt!

JULY 8 - JULY 12 12:30PM - 2:30PM

JULY 15 - JULY 19 9:00AM - 11:00AM

**\$165 MEMBERS | \$180 NON-MEMBERS**

## CHEM-MYSTERY

From the kitchen to the laboratory, reactions happen all around us! Join us as we try to solve different CHEM-mysteries. Find out what chemicals you have to mix to make slime, and explore the states of matter.

JULY 15 - JULY 19 12:30PM - 2:30PM

JULY 22 - JULY 26 9:00AM - 11:00AM

**\$165 MEMBERS | \$180 NON-MEMBERS**

## GOOD VIBRATIONS

Want to be a musician and your parents don't approve? Come join our band... of scientists of course! Build your own instruments and explore the importance of sound for survival and communication. Plunk! Rattle! Bang! Let's get rocking!

JULY 8 - JULY 12 9:00AM - 11:00AM

JULY 22 - JULY 26 12:30PM - 2:30PM

**\$165 MEMBERS | \$180 NON-MEMBERS**



Explore the scientific wonders of the world with your child! Our parent-and-child classes focus on scientific themes with exciting hands-on activities and crafts. Each fee covers one Pre-K child (age 3 to 4)\* and one parent or "big buddy" (18 years and older). Additional adults or campers must register separately at the full fee.

*\*Campers must be age 3 by the start of class.*



# KINDERGARTEN PROGRAMS

## INGENIOUS ENGINEERS

Engineer, we have a problem here! Put your problem-solving skills to the test and see which solution works best. Campers will use simple classroom materials to build structures, toys, and other crazy contraptions as they bring their imaginations to life!

JUNE 10 - JUNE 14	12:30PM - 3:00PM
JUNE 24 - JUNE 28	9:00AM - 11:30AM
JULY 15 - JULY 19	12:30PM - 3:00PM
JULY 29 - AUGUST 2	9:00AM - 11:30AM

**\$165 MEMBERS | \$180 NON-MEMBERS**

## JUNIOR BIG LAB SCIENTIST

Let's go explore science! Ecosystems, polymers, air pressure, kinetic energy... What on Earth do these words mean? Learn all this and more as you investigate basic science concepts in our Big Lab.

JUNE 10 - JUNE 14	9:00AM - 11:30AM
JUNE 24 - JUNE 28	12:30PM - 3:00PM
JULY 15 - JULY 19	9:00AM - 11:30AM
JULY 29 - AUGUST 2	12:30PM - 3:00PM

**\$165 MEMBERS | \$180 NON-MEMBERS**

## OVER REACTING

Bubble, fizz, and POP! Everyone is a scientist in this course. Learn about the different tools used for mixing and changing chemicals. Make reactions that are colorful and explosively over the top, and find out how and why they happen. Campers will make their very own chemical reactions!

JUNE 17 - JUNE 21	12:30PM - 3:00PM
JULY 8 - JULY 12	9:00AM - 11:30AM
JULY 22 - JULY 26	12:30PM - 3:00PM

**\$165 MEMBERS | \$180 NON-MEMBERS**



Introduce your child to the exciting world of science with our kindergarten programs! Children will explore and experience science with fun, hands-on activities. All children enrolled in the kindergarten programs must be entering kindergarten in Fall 2019. Children must be comfortable with a classroom environment and be able to stay without a parent or guardian for the 2½-hour class.

**NEW**

## DOC MCSCIENCE

Get your stethoscopes, gloves and tools to unleash your inner doctor. Get ready for this adventure to discover what makes you unique. Take a journey through the human body to explore your different body systems and discover how your bones, muscles, and organs work together inside your body.

JUNE 17 - JUNE 21	9:00AM - 11:30AM
JULY 8 - JULY 12	12:30PM - 3:00PM
JULY 22 - JULY 26	9:00AM - 11:30AM

**\$165 MEMBERS | \$180 NON-MEMBERS**



# 1ST AND 2ND GRADE PROGRAMS

## SCIENCE EXPLORERS

Discover the endless possibilities of science by conducting different experiments every day. Learn about the solar system, make a ball fly with air pressure, drop a parachute from our MEGA Tower, and see how animals adapt to their environment by visiting our Discovery Rooms. Let's go on an adventure to explore science!

JUNE 10 - JUNE 14	9:00AM - 11:30AM
JUNE 17 - JUNE 21	12:30PM - 3:00PM
JUNE 24 - JUNE 28	9:00AM - 11:30AM
JULY 8 - JULY 12	12:30PM - 3:00PM
JULY 15 - JULY 19	9:00AM - 11:30AM
JULY 22 - JULY 26	12:30PM - 3:00PM
JULY 29 - AUGUST 2	9:00AM - 11:30AM
AUGUST 5 - AUGUST 9	12:30PM - 3:00PM

**\$165 MEMBERS | \$180 NON-MEMBERS**

## SCIENCE STEW

Get your mixing bowls and oven mitts ready for some culinary creations! Science takes center stage as you discover the connections between cooking and chemistry. Learn about your sense of taste while creating dishes designed to make those taste buds go crazy!

JUNE 10 - JUNE 14	12:30PM - 3:00PM
JUNE 17 - JUNE 21	9:00AM - 11:30AM
JUNE 24 - JUNE 28	12:30PM - 3:00PM
JULY 8 - JULY 12	9:00AM - 11:30AM
JULY 15 - JULY 19	12:30PM - 3:00PM
JULY 22 - JULY 26	9:00AM - 11:30AM
JULY 29 - AUGUST 2	12:30PM - 3:00PM
AUGUST 5 - AUGUST 9	9:00AM - 11:30AM

**\$165 MEMBERS | \$180 NON-MEMBERS**

NEW

## ENCHANTED ENGINEERING

Structures, circuits, and things that go. Build them all yourself. Let's GO! Help some of your favorite fairy tale characters solve engineering challenges. Build a car that can go over a bridge after a troll broke it. Create, inspect, and test your structures to make sure they are strong enough to withstand the strongest winds.

JUNE 10 - JUNE 14	9:00AM - 11:30AM
JUNE 17 - JUNE 21	12:30PM - 3:00PM
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JULY 15 - JULY 19	9:00AM - 11:30AM
JULY 22 - JULY 26	12:30PM - 3:00PM
JULY 29 - AUGUST 2	9:00AM - 11:30AM
AUGUST 5 - AUGUST 9	12:30PM - 3:00PM

**\$165 MEMBERS | \$180 NON-MEMBERS**

## INSIDES OUT

Stethoscopes... CHECK! Gloves... CHECK! Tools... READY! Discover how the whole body works together as one big team to keep you healthy. Explore the life processes that humans and animals must perform in order to survive. You will see yourself in a whole new way after turning your body's insides OUT!

JUNE 10 - JUNE 14	12:30PM - 3:00PM
JUNE 17 - JUNE 21	9:00AM - 11:30AM
JUNE 24 - JUNE 28	12:30PM - 3:00PM
JULY 8 - JULY 12	9:00AM - 11:30AM
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JULY 22 - JULY 26	9:00AM - 11:30AM
JULY 29 - AUGUST 2	12:30PM - 3:00PM
AUGUST 5 - AUGUST 9	9:00AM - 11:30AM

**\$165 MEMBERS | \$180 NON-MEMBERS**



## BIG LAB SCIENTIST

Let's build it, race it, and fly it! Test the limits of your imagination when you have the whole Big Lab to work with. Drop melons from the MEGA Tower, sail boats across the Water Works pool, and launch a tennis ball over 100 feet in the air!

JUNE 10 - JUNE 14	9:00AM - 11:30AM
JUNE 17 - JUNE 21	12:30PM - 3:00PM
JUNE 24 - JUNE 28	9:00AM - 11:30AM
JULY 8 - JULY 12	12:30PM - 3:00PM
JULY 15 - JULY 19	9:00AM - 11:30AM
JULY 22 - JULY 26	12:30PM - 3:00PM
JULY 29 - AUGUST 2	9:00AM - 11:30AM
AUGUST 5 - AUGUST 9	12:30PM - 3:00PM

**\$165 MEMBERS | \$180 NON-MEMBERS**

## CHEMICAL CHAOS

Chemistry is everywhere! Learn how chemicals react to make something new as you create cool, slimy, and bubbly reactions. Observe how pigments separate to create a burst of color. Chemistry is not just fun, it's chaotic!

JUNE 10 - JUNE 14	12:30PM - 3:00PM
JUNE 17 - JUNE 21	9:00AM - 11:30AM
JUNE 24 - JUNE 28	12:30PM - 3:00PM
JULY 8 - JULY 12	9:00AM - 11:30AM
JULY 15 - JULY 19	12:30PM - 3:00PM
JULY 22 - JULY 26	9:00AM - 11:30AM
JULY 29 - AUGUST 2	12:30PM - 3:00PM
AUGUST 5 - AUGUST 9	9:00AM - 11:30AM

**\$165 MEMBERS | \$180 NON-MEMBERS**



## 3,2,1, BLAST OFF!

Experience the thrill of building your own rocket prototypes! Explore distant planets and create your own mini solar system. Discover what it takes to launch your own air-powered rocket!

JUNE 10 - JUNE 14	9:00AM - 11:30AM
JUNE 17 - JUNE 21	12:30PM - 3:00PM
JUNE 24 - JUNE 28	9:00AM - 11:30AM
JULY 8 - JULY 12	12:30PM - 3:00PM
JULY 15 - JULY 19	9:00AM - 11:30AM
JULY 22 - JULY 26	12:30PM - 3:00PM
JULY 29 - AUGUST 2	9:00AM - 11:30AM
AUGUST 5 - AUGUST 9	12:30PM - 3:00PM

**\$165 MEMBERS | \$180 NON-MEMBERS**

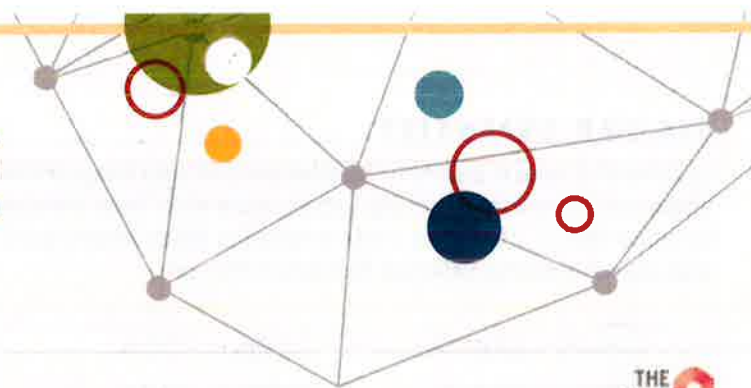
## WIZARD SCIENCE

Is it magic or science? You don't have to take a mysterious train to find out in this wizard academy. Investigate the science behind growing beasts, disappearing water and much more. Amaze your family and friends in a magic show on the last day of class!

JUNE 10 - JUNE 14	12:30PM - 3:00PM
JUNE 17 - JUNE 21	9:00AM - 11:30AM
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JULY 8 - JULY 12	9:00AM - 11:30AM
JULY 15 - JULY 19	12:30PM - 3:00PM
JULY 22 - JULY 26	9:00AM - 11:30AM
JULY 29 - AUGUST 2	12:30PM - 3:00PM
AUGUST 5 - AUGUST 9	9:00AM - 11:30AM

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# 3RD AND 4TH GRADE PROGRAMS



## CHEMICAL CONNECTION



Ever wonder what would happen if you mix two substances together? Find out in this fun (if not exactly tidy!) class as you test various ingredients to create cool chemical reactions. You'll even make your own tie-dye shirt! For the first time ever this year, we'll be partnering with The Music Center's education department to figure out what creative movement has to do with science!

JUNE 10 - JUNE 14	12:30PM - 3:00PM
JUNE 17 - JUNE 21	9:00AM - 11:30AM
JUNE 24 - JUNE 28	12:30PM - 3:00PM
JULY 8 - JULY 12	9:00AM - 11:30AM
JULY 15 - JULY 19	12:30PM - 3:00PM
JULY 22 - JULY 26	9:00AM - 11:30AM
JULY 29 - AUGUST 2	12:30PM - 3:00PM
AUGUST 5 - AUGUST 9	9:00AM - 11:30AM

**\$165 MEMBERS | \$180 NON-MEMBERS**

## GO FOR LAUNCH!



Join us on a space adventure for a trip that's out of this world! Join the space exploration team to conduct your own experiments and trajectory tests, and experience the fun of launching your own engine-powered rocket on the last day. For the first time ever this year, we'll be partnering with The Music Center's education department to figure out what creative movement has to do with science!

JUNE 10 - JUNE 14	9:00AM - 11:30AM
JUNE 17 - JUNE 21	12:30PM - 3:00PM
JUNE 24 - JUNE 28	9:00AM - 11:30AM
JULY 8 - JULY 12	12:30PM - 3:00PM
JULY 15 - JULY 19	9:00AM - 11:30AM
JULY 22 - JULY 26	12:30PM - 3:00PM
JULY 29 - AUGUST 2	9:00AM - 11:30AM
AUGUST 5 - AUGUST 9	12:30PM - 3:00PM

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## FANTASTIC PHYSICS

Physics makes the world go around—literally. Learn its secrets using the Big Lab, where you will build and design roller coasters and sailboats. Drop objects from the three-story MEGA Tower to investigate gravity's force. Energy and motion take center stage in this week of "phantastically phun" physics.

JUNE 10 - JUNE 14	9:00AM - 11:30AM
JUNE 17 - JUNE 21	12:30PM - 3:00PM
JUNE 24 - JUNE 28	9:00AM - 11:30AM
JULY 8 - JULY 12	12:30PM - 3:00PM
JULY 15 - JULY 19	9:00AM - 11:30AM
JULY 22 - JULY 26	12:30PM - 3:00PM
JULY 29 - AUGUST 2	9:00AM - 11:30AM
AUGUST 5 - AUGUST 9	12:30PM - 3:00PM

**\$165 MEMBERS | \$180 NON-MEMBERS**

**NEW**

## JOURNEY TO THE MOON

Houston, we have a problem! Come celebrate the 50th anniversary of the Apollo missions with us. Keep your eyes in the sky and find out how scientists sent people to the Moon. Probe the mysteries of meteors and measure craters. Build your own model of the Saturn V rocket that you get to take home.

JUNE 10 - JUNE 14	12:30PM - 3:00PM
JUNE 17 - JUNE 21	9:00AM - 11:30AM
JUNE 24 - JUNE 28	12:30PM - 3:00PM
JULY 8 - JULY 12	9:00AM - 11:30AM
JULY 15 - JULY 19	12:30PM - 3:00PM
JULY 22 - JULY 26	9:00AM - 11:30AM
JULY 29 - AUGUST 2	12:30PM - 3:00PM
AUGUST 5 - AUGUST 9	9:00AM - 11:30AM

**\$165 MEMBERS | \$180 NON-MEMBERS**



## BIO, BIO, EVERYWHERE!

From the plants growing in your homes to the bacteria growing on your hands, you can find life everywhere on Earth! Explore the different branches of biology by dissecting a squid, looking at microorganisms, and making a terrarium. Grow your own cell culture to discover the microscopic organisms that surround us every day. Discover the secrets of life on your journey through the wonders of biology.

JUNE 10 - JUNE 14	9:00AM - 11:30AM
JUNE 17 - JUNE 21	12:30PM - 3:00PM
JUNE 24 - JUNE 28	9:00AM - 11:30AM
JULY 8 - JULY 12	12:30PM - 3:00PM
JULY 15 - JULY 19	9:00AM - 11:30AM
JULY 22 - JULY 26	12:30PM - 3:00PM
JULY 29 - AUGUST 2	9:00AM - 11:30AM
AUGUST 5 - AUGUST 9	12:30PM - 3:00PM

**\$165 MEMBERS | \$180 NON-MEMBERS**

## SURVIVAL SCIENCE

Imagine this — you're stranded in the wilderness with no food and water. Where will you sleep? What will you eat? How will you live? Learn fun practical skills to survive, whether you find yourself in the cold, barren forest or on a tropical deserted island! Filter your own water and learn how to build the best shelter.

JUNE 24 - JUNE 28	12:30PM - 3:00PM
JULY 8 - JULY 12	9:00AM - 11:30AM
JULY 15 - JULY 19	12:30PM - 3:00PM
JULY 22 - JULY 26	9:00AM - 11:30AM

**\$165 MEMBERS | \$180 NON-MEMBERS**



## ROCKIN ROBOTS

How does a robot work? What are some ways robots can help us? Roll your way into robotics and take an introductory course to answer these questions and much more. Make different kinds of robots that can lift, push, and even create artistic masterpieces. Dive into the world of coding and learn to code a robot that can recognize different colors and navigate its way through a maze.

JUNE 24 - JUNE 28	9:00AM - 11:30AM
JULY 8 - JULY 12	12:30PM - 3:00PM
JULY 15 - JULY 19	9:00AM - 11:30AM
JULY 22 - JULY 26	12:30PM - 3:00PM

**\$165 MEMBERS | \$180 NON-MEMBERS**



## BUILD IT!

Put your engineering skills to the test as you use simple classroom materials to build mammoth structures, unique toys, and other crazy contraptions. Find out what it takes to be an engineer as you see the things you imagine appear!

JUNE 10 - JUNE 14	12:30PM - 3:00PM
JUNE 17 - JUNE 21	9:00AM - 11:30AM
JUNE 24 - JUNE 28	12:30PM - 3:00PM
JULY 8 - JULY 12	9:00AM - 11:30AM
JULY 15 - JULY 19	12:30PM - 3:00PM
JULY 22 - JULY 26	9:00AM - 11:30AM
JULY 29 - AUGUST 2	12:30PM - 3:00PM
AUGUST 5 - AUGUST 9	9:00AM - 11:30AM

**\$165 MEMBERS | \$180 NON-MEMBERS**

# 5TH AND 6TH GRADE PROGRAMS

NEW

## BOUNTIFUL BIOLOGY

**BIOLOGY.** It grows on you! Find out what organisms require to exist. Explore human and animal anatomy through animal dissections. Visit our Cell Theater to see how single-celled organisms survive, and grow. See the world in a new perspective!

JUNE 10 - JUNE 14	9:00AM - 11:30AM
JUNE 17 - JUNE 21	12:30PM - 3:00PM
JUNE 24 - JUNE 28	9:00AM - 11:30AM
JULY 8 - JULY 12	12:30PM - 3:00PM
JULY 15 - JULY 19	9:00AM - 11:30AM
JULY 22 - JULY 26	12:30PM - 3:00PM
JULY 29 - AUGUST 2	9:00AM - 11:30AM
AUGUST 5 - AUGUST 9	12:30PM - 3:00PM

**\$165 MEMBERS | \$180 NON-MEMBERS**

## CHEMICAL MELTDOWN

Watch science in action through a chemical reaction! Test different reactants to uncover how chemical reactions work. Discover the difference between a physical reaction and a chemical reaction. Get ready to get messy and have a chemical meltdown!

JUNE 10 - JUNE 14	9:00AM - 11:30AM
JUNE 17 - JUNE 21	12:30PM - 3:00PM
JUNE 24 - JUNE 28	9:00AM - 11:30AM
JULY 8 - JULY 12	12:30PM - 3:00PM
JULY 15 - JULY 19	9:00AM - 11:30AM
JULY 22 - JULY 26	12:30PM - 3:00PM
JULY 29 - AUGUST 2	9:00AM - 11:30AM
AUGUST 5 - AUGUST 9	12:30PM - 3:00PM

**\$165 MEMBERS | \$180 NON-MEMBERS**

## THE SCIENCE OF 3D ANIMATION **FULL DAY**

Explore the science of 3D animation! You will learn all about animation principles and techniques, as well as how to create your own animated film. The final day will feature a film festival and premiere party for you to invite your own guests!

JUNE 10 - JUNE 14	9:00AM - 3:00PM
JUNE 17 - JUNE 21	9:00AM - 3:00PM
JUNE 24 - JUNE 28	9:00AM - 3:00PM
JULY 8 - JULY 12	9:00AM - 3:00PM
JULY 15 - JULY 19	9:00AM - 3:00PM
JULY 22 - JULY 26	9:00AM - 3:00PM
JULY 29 - AUGUST 2	9:00AM - 3:00PM
AUGUST 5 - AUGUST 9	9:00AM - 3:00PM

**\$330 MEMBERS | \$360 NON-MEMBERS**

NEW

## INTO ORBIT

Take a look at your home planet as you've never seen it before! Examine the Earth from orbit using real footage taken from space shuttle Endeavour. Discover how astronauts aboard the International Space Station eat, exercise, live in a weightless environment, and learn about Earth in outer space!

JUNE 10 - JUNE 14	12:30PM - 3:00PM
JUNE 17 - JUNE 21	9:00AM - 11:30AM
JUNE 24 - JUNE 28	12:30PM - 3:00PM
JULY 8 - JULY 12	9:00AM - 11:30AM
JULY 15 - JULY 19	12:30PM - 3:00PM
JULY 22 - JULY 26	9:00AM - 11:30AM
JULY 29 - AUGUST 2	12:30PM - 3:00PM
AUGUST 5 - AUGUST 9	9:00AM - 11:30AM

**\$165 MEMBERS | \$180 NON-MEMBERS**





## ROCKET LAB

It IS rocket science! Learn about the progression of space vehicles by exploring thrust, lift, drag, and gravity. Journey through the history of rocketry and see what types of rockets were used to send our astronauts to space. Then channel your inner rocket engineering skills and launch a rocket of your own design at the end of the week.

JUNE 10 - JUNE 14	12:30PM - 3:00PM
JUNE 17 - JUNE 21	9:00AM - 11:30AM
JUNE 24 - JUNE 28	12:30PM - 3:00PM
JULY 8 - JULY 12	9:00AM - 11:30AM
JULY 15 - JULY 19	12:30PM - 3:00PM
JULY 22 - JULY 26	9:00AM - 11:30AM
JULY 29 - AUGUST 2	12:30PM - 3:00PM
AUGUST 5 - AUGUST 9	9:00AM - 11:30AM

**\$165 MEMBERS | \$180 NON-MEMBERS**

## ECLECTIC ENGINEERING

**FULL DAY**

How do we make a robot arm move? What makes structures strong enough to withstand earthquakes? Answer these questions and more while drafting new designs and perfecting problem-solving skills. Draw on multiple sciences as you develop the skills to construct the future!

JUNE 10 - JUNE 14	9:00AM - 3:00PM
JUNE 24 - JUNE 28	9:00AM - 3:00PM
JULY 15 - JULY 19	9:00AM - 3:00PM
JULY 29 - AUGUST 2	9:00AM - 3:00PM

**\$330 MEMBERS | \$360 NON-MEMBERS**

## ALL COOKED UP!

**FULL DAY**

Do you love science AND cooking? Add a pinch of chemistry and a dash of science in this fun culinary class. Learn about molecular gastronomy, the newest frontier in culinary arts and science. Watch food transform from typical to unexpected forms using scientific laboratory techniques. And don't forget to eat your experiments!

JUNE 17 - JUNE 21	9:00AM - 3:00PM
JULY 8 - JULY 12	9:00AM - 3:00PM
JULY 22 - JULY 26	9:00AM - 3:00PM
AUGUST 5 - AUGUST 9	9:00AM - 3:00PM

**\$330 MEMBERS | \$360 NON-MEMBERS**





# 7TH AND 8TH GRADE PROGRAMS

## **NEW** SURVIVING THE RED PLANET **FULL DAY**

Calling all scientists! Delve into the world of design and be part of a team that lands a rover on an uncharted planet. Plan and execute a mission to Mars. Explore the problems faced by NASA scientists and astronauts trying to create a livable world far from our planet. Discover the similarities and differences between Mars and Earth. This class was created in conjunction with NASA's Jet Propulsion Laboratory.

JUNE 17 - JUNE 21	9:00AM - 3:00PM
JULY 8 - JULY 12	9:00AM - 3:00PM
JULY 22 - JULY 26	9:00AM - 3:00PM
AUGUST 5 - AUGUST 9	9:00AM - 3:00PM

**\$330 MEMBERS | \$360 NON-MEMBERS**

## SEAS THE DAY **FULL DAY**

Whale hello there! With so much of our world covered in water, join us on an adventure to explore the life inside it. Come on this marine biology tour and learn the efforts that scientists are making to keep our oceans healthy. Experiment with water quality testing, dissect marine animals, and work with our living collections team to help us take care of our animals in the kelp forest.

JUNE 10 - JUNE 14	9:00AM - 3:00PM
JUNE 24 - JUNE 28	9:00AM - 3:00PM
JULY 15 - JULY 19	9:00AM - 3:00PM
JULY 29 - AUGUST 2	9:00AM - 3:00PM

**\$330 MEMBERS | \$360 NON-MEMBERS**

## A-MAZE-ING ROBOTS **FULL DAY**

Design and build an independent robot that can navigate its way through a maze. Watch as your robots perform a dance you choreograph just for them. Now if you could only teach them to clean your room!

JUNE 10 - JUNE 14	9:00AM - 3:00PM
JULY 29 - AUGUST 2	9:00AM - 3:00PM

**\$330 MEMBERS | \$360 NON-MEMBERS**

## LIGHTS! CAMERA! SCIENCE! **FULL DAY**

Dive into the world of photography and learn the science behind the lens. Create a pinhole camera to learn how cameras take in light. Dissect film, bend light with lasers, lenses, and mirrors. Don't forget the flash!

JUNE 10 - JUNE 14	9:00AM - 3:00PM
JUNE 24 - JUNE 28	9:00AM - 3:00PM
JULY 15 - JULY 19	9:00AM - 3:00PM
JULY 29 - AUGUST 2	9:00AM - 3:00PM

**\$330 MEMBERS | \$360 NON-MEMBERS**





## RADICAL REACTIONS

FULL DAY

Take chemistry to a whole new level! Be a chemist and experiment with elephant toothpaste, freeze fruit in liquid nitrogen, and discover the chemistry used in rocket engines by creating your own combustion reactions.

JUNE 17 - JUNE 21 9:00AM - 3:00PM

JULY 15 - JULY 19 9:00AM - 3:00PM

**\$330 MEMBERS | \$360 NON-MEMBERS**

## BIOLO-GEE WHIZ

FULL DAY

What does your brain really look like? How does your circulatory system work? You'll find the answers to these questions and more as you explore human anatomy. Delve into the medical industry and learn how various organs function by dissecting fetal pigs. By the end of the week, you will earn your M.D. certificate — Museum Doctor, that is!

JUNE 17 - JUNE 21 9:00AM - 3:00PM

JULY 8 - JULY 12 9:00AM - 3:00PM

JULY 22 - JULY 26 9:00AM - 3:00PM

AUGUST 5 - AUGUST 9 9:00AM - 3:00PM

**\$330 MEMBERS | \$360 NON-MEMBERS**

## SKATE SCIENCE

FULL DAY

Carve out time this summer to explore the mechanics of skating. Put your "goofyfoot" forward as you dissect ollies, vert skating, and all the other physics of fun on wheels. We'll highlight engineering as participants design, build, and decorate their own customized skateboard that will be theirs to keep.

JUNE 24 - JUNE 28 9:00AM - 3:00PM

**\$330 MEMBERS | \$360 NON-MEMBERS**

## WORKING IN SPACE

FULL DAY

Find out what it takes to live and work in space! Dive deep into weightlessness and carry out a mission underwater in the Expo Center diving pool to learn how astronauts train. Find out about different methods to study objects in space and the cost involved with space exploration. This class is taught by California Science Center curators and educators.

*\* This class may require a physician's signature to have the students participate in an underwater diving experience.*

JULY 22 - JULY 26 9:00AM - 3:00PM

**\$330 MEMBERS | \$360 NON-MEMBERS**

# 9TH AND 10TH GRADE PROGRAMS

## DRONE ZONE

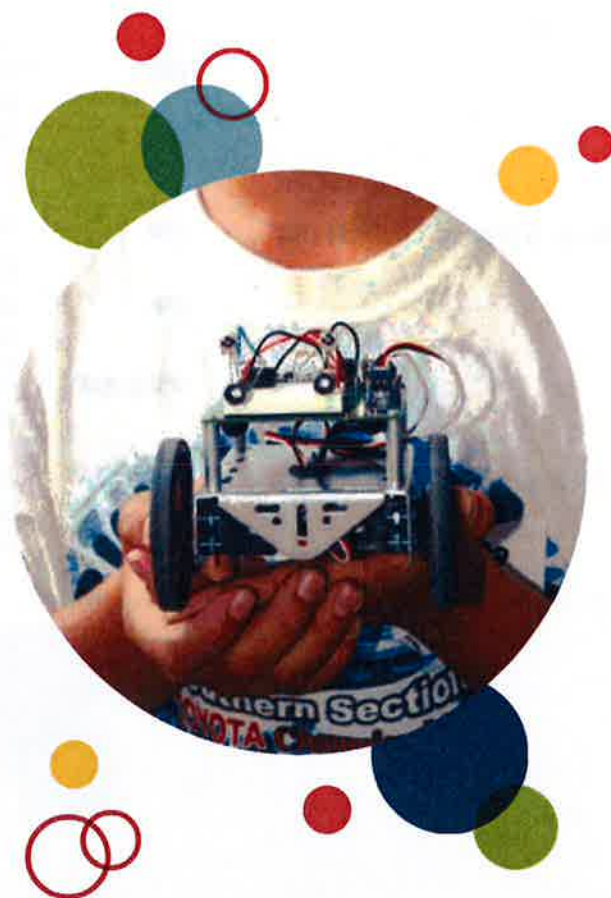
FULL DAY

Let your imagination fly from the classroom into the sky. Learn about the progression of flight while you design, build, and test your own drone. Can you make it fly? Will it balance? Go wireless and take your creation home at the end of the week.

JULY 8 - JULY 12 9:00AM - 3:00PM

AUGUST 5 - AUGUST 9 9:00AM - 3:00PM

**\$330 MEMBERS | \$360 NON-MEMBERS**





# HANDS-ON SCIENCE CAMP

**WEEK 1**  
**JUNE 10 - 14**

**WEEK 2**  
**JUNE 17 - 21**

**WEEK 3**  
**JUNE 24 - 28**

**LITTLE LEARNERS  
(PRE-K)**

**AM**  
**PM**

**KINDERGARTEN**

**AM**  
**PM**

JUNIOR BIG LAB SCIENTIST  
INGENIOUS ENGINEERS

DOC MCSCIENCE  
OVER REACTING

INGENIOUS ENGINEERS  
JUNIOR BIG LAB SCIENTIST

**1ST AND 2ND GRADE**

**AM**

3,2,1, BLAST OFF!  
ENCHANTED ENGINEERING  
BIG LAB SCIENTIST  
SCIENCE EXPLORERS

WIZARD SCIENCE  
SCIENCE STEW  
CHEMICAL CHAOS  
INSIDES OUT

3,2,1, BLAST OFF!  
ENCHANTED ENGINEERING  
BIG LAB SCIENTIST  
SCIENCE EXPLORERS

**PM**

WIZARD SCIENCE  
SCIENCE STEW  
CHEMICAL CHAOS  
INSIDES OUT

3,2,1, BLAST OFF!  
ENCHANTED ENGINEERING  
BIG LAB SCIENTIST  
SCIENCE EXPLORERS

WIZARD SCIENCE  
SCIENCE STEW  
CHEMICAL CHAOS  
INSIDES OUT

**3RD AND 4TH GRADE**

**AM**

BIO, BIO, EVERYWHERE!  
FANTASTIC PHYSICS  
GO FOR LAUNCH!

JOURNEY TO THE MOON  
BUILD IT!  
CHEMICAL CONNECTION

BIO, BIO, EVERYWHERE!  
FANTASTIC PHYSICS  
GO FOR LAUNCH!  
ROCKIN' ROBOTS

**PM**

JOURNEY TO THE MOON  
BUILD IT!  
CHEMICAL CONNECTION

BIO, BIO, EVERYWHERE!  
FANTASTIC PHYSICS  
GO FOR LAUNCH!

JOURNEY TO THE MOON  
BUILD IT!  
CHEMICAL CONNECTION  
SURVIVAL SCIENCE

**5TH AND 6TH GRADE**

**AM**

BOUNTIFUL BIOLOGY  
CHEMICAL MELTDOWN

INTO ORBIT  
ROCKET LAB

BOUNTIFUL BIOLOGY  
CHEMICAL MELTDOWN

**PM**

INTO ORBIT  
ROCKET LAB

BOUNTIFUL BIOLOGY  
CHEMICAL MELTDOWN

INTO ORBIT  
ROCKET LAB

**FULL DAY**

ECLECTIC ENGINEERING  
3D ANIMATION

ALL COOKED UP  
3D ANIMATION

ECLECTIC ENGINEERING  
3D ANIMATION

**7TH AND 8TH GRADE**

**FULL DAY**

LIGHTS! CAMERA! SCIENCE!  
SEAS THE DAY  
A-MAZE-ING ROBOTS

SURVIVING THE RED PLANET  
BIOLO-GEE WHIZ  
RADICAL REACTIONS

LIGHTS! CAMERA! SCIENCE!  
SKATE SCIENCE  
SEAS THE DAY

**9TH AND 10TH GRADE**

**FULL DAY**



# COURSE CALENDAR 2019

## WEEK 4 JULY 8 - 12

GOOD VIBRATIONS  
ME, MYSELF, AND I

OVER REACTING  
DOC MCSCIENCE

WIZARD SCIENCE  
SCIENCE STEW  
CHEMICAL CHAOS  
INSIDES OUT  
3,2,1, BLAST OFF!  
ENCHANTED ENGINEERING  
BIG LAB SCIENTIST  
SCIENCE EXPLORERS

JOURNEY TO THE MOON  
BUILD IT!  
CHEMICAL CONNECTION  
SURVIVAL SCIENCE  
BIO, BIO, EVERYWHERE!  
FANTASTIC PHYSICS  
GO FOR LAUNCH!  
ROCKIN' ROBOTS

INTO ORBIT  
ROCKET LAB  
BOUNTIFUL BIOLOGY  
CHEMICAL MELTDOWN  
ALL COOKED UP  
3D ANIMATION

SURVIVING THE RED PLANET  
BIOLO-GEE WHIZ

DRONE ZONE

## WEEK 5 JULY 15 - 19

ME, MYSELF, AND I  
CHEM-MYSTERY

JUNIOR BIG LAB SCIENTIST  
INGENIOUS ENGINEERS

3,2,1, BLAST OFF!  
ENCHANTED ENGINEERING  
BIG LAB SCIENTIST  
SCIENCE EXPLORERS  
WIZARD SCIENCE  
SCIENCE STEW  
CHEMICAL CHAOS  
INSIDES OUT

BIO, BIO, EVERYWHERE!  
FANTASTIC PHYSICS  
GO FOR LAUNCH!  
ROCKIN' ROBOTS  
JOURNEY TO THE MOON  
BUILD IT!  
CHEMICAL CONNECTION  
SURVIVAL SCIENCE

BOUNTIFUL BIOLOGY  
CHEMICAL MELTDOWN  
INTO ORBIT  
ROCKET LAB  
ECLECTIC ENGINEERING  
3D ANIMATION

LIGHTS! CAMERA! SCIENCE!  
RADICAL REACTIONS  
SEAS THE DAY

## WEEK 6 JULY 22 - 26

CHEM-MYSTERY  
GOOD VIBRATIONS

DOC MCSCIENCE  
OVER REACTING

WIZARD SCIENCE  
SCIENCE STEW  
CHEMICAL CHAOS  
INSIDES OUT  
3,2,1, BLAST OFF!  
ENCHANTED ENGINEERING  
BIG LAB SCIENTIST  
SCIENCE EXPLORERS

JOURNEY TO THE MOON  
BUILD IT!  
CHEMICAL CONNECTION  
SURVIVAL SCIENCE  
BIO, BIO, EVERYWHERE!  
FANTASTIC PHYSICS  
GO FOR LAUNCH!  
ROCKIN' ROBOTS

INTO ORBIT  
ROCKET LAB  
BOUNTIFUL BIOLOGY  
CHEMICAL MELTDOWN  
ALL COOKED UP  
3D ANIMATION

SURVIVING THE RED PLANET  
WORKING IN SPACE  
BIOLO-GEE WHIZ

## WEEK 7 JULY 29 - AUGUST 2

INGENIOUS ENGINEERS  
JUNIOR BIG LAB SCIENTIST

3,2,1, BLAST OFF!  
ENCHANTED ENGINEERING  
BIG LAB SCIENTIST  
SCIENCE EXPLORERS  
WIZARD SCIENCE  
SCIENCE STEW  
CHEMICAL CHAOS  
INSIDES OUT

BIO, BIO, EVERYWHERE!  
FANTASTIC PHYSICS  
GO FOR LAUNCH!  
JOURNEY TO THE MOON  
BUILD IT!  
CHEMICAL CONNECTION

BOUNTIFUL BIOLOGY  
CHEMICAL MELTDOWN  
INTO ORBIT  
ROCKET LAB  
ECLECTIC ENGINEERING  
3D ANIMATION

LIGHTS! CAMERA! SCIENCE!  
A-MAZE-ING ROBOTS  
SEAS THE DAY

## WEEK 8 AUGUST 5 - 9

WIZARD SCIENCE  
SCIENCE STEW  
CHEMICAL CHAOS  
INSIDES OUT  
3,2,1, BLAST OFF!  
ENCHANTED ENGINEERING  
BIG LAB SCIENTIST  
SCIENCE EXPLORERS

JOURNEY TO THE MOON  
BUILD IT!  
CHEMICAL CONNECTION  
BIO, BIO, EVERYWHERE!  
FANTASTIC PHYSICS  
GO FOR LAUNCH!

INTO ORBIT  
ROCKET LAB  
BOUNTIFUL BIOLOGY  
CHEMICAL MELTDOWN  
ALL COOKED UP  
3D ANIMATION

SURVIVING THE RED PLANET  
BIOLO-GEE WHIZ

DRONE ZONE



# PARENT INFORMATION

## CONFIRMATION LETTER

A confirmation letter will be emailed within 2-3 business days of receiving your completed enrollment request and payment. A parking pass will be provided with your confirmation letter. The parking pass will allow you free parking for 15 minutes during pick-up and drop-off. If you would like to request a confirmation letter via postal mail or did not receive one, please call **213.744.7444**, or email your request to [summersciencecamp@cscmail.org](mailto:summersciencecamp@cscmail.org).

## SCHOLARSHIPS

A limited number of scholarships are available to qualifying families. For more information about eligibility, or to make a contribution to the camp scholarship fund, please call **213.744.7444**.

## YOUNG CURATORS

The Curator Kids Club is now the **Young Curators**. **Young Curators** is open to middle school students entering 7th or 8th grade who live within five miles of the California Science Center. Eligible students are invited to apply for two weeklong scholarships for Hands-On Science Camp, where they can pick two full-day camp classes that most interest them. Family and friends of California Science Center Camp Scholars will be invited to four exclusive educational programs throughout the school year. For more information about eligibility, or to make a contribution to the camp scholarship fund, please call **213.744.7444**.

## EXTENDED CARE

Campers taking a full-day class or both morning and afternoon classes can sign up for the Extended Day Program. This program allows you to drop off your camper at 8:00AM (one hour before class begins) and pick them up at 5:00PM (two hours after class ends).

For more information please refer to page 17.

## HOW DO I CREATE A FULL-DAY PROGRAM IF MY GRADE LEVEL ONLY OFFERS HALF-DAY COURSES?

Two half-day programs can be combined to create a full day. A supervised lunch period is included when enrolling for a morning and afternoon class. Lunch will not be provided by

the California Science Center Foundation. Campers must bring their own lunch for all day classes. Snacks and water are recommended. Please refer to the Course Calendar on page 14 for more information.

## CANCELLATION POLICY

Refunds are permitted up to 14 days prior to the start of your camper's session. A \$25 processing fee will be subtracted from the refund. No credits or refunds will be given 14 days prior to the start of your camp session. In the event that a class is cancelled by the California Science Center Foundation, we will make arrangements for your child to enroll in another class or refund your money.

## CHANGES

Class changes must be made 14 days in advance. A \$25 processing fee will be charged for each change made to your reservation(s). There is no guarantee that space will be available in another class and no cash refunds or credits will be given, so please plan carefully before enrolling.

## DAY OF CAMP

### FIRST DAY OF CAMP

On the first day of camp, parents, guardians, or authorized adults will need to walk camper(s) to the Big Lab inside the Wallis Annenberg Building. Parents, guardians, or authorized adults will need to check in with camp instructors and confirm correct name spelling, emergency phone numbers, health history, and authorized adults for pick-up.

### Parking

Please leave your parking pass on your dashboard each day of class. It will allow you free 15-minute parking for pick-up and drop-off. Parents wishing to stay on site must pay a \$12 daily parking fee. Pre-K parents or "big buddies" are required to participate in the class and special parking instructions will be provided in the confirmation letter.

### DROP-OFF AND PICK-UP

#### Drop-Off

On MONDAY mornings, parents/guardians must PARK in the





# EXTENDED DAY PROGRAM

## FOR KINDERGARTEN – 10TH GRADE CAMPERS

Campers taking a full-day class or both morning and afternoon classes can sign up for the Extended Day Program. This program allows you to drop off your children at 8:00AM (one hour before class begins) and pick them up at 5:00PM (two hours after class ends). The Extended Day Program includes creative and fun group activities led and supervised by camp staff. Snacks for the afternoon will be provided. You must register for the entire week — no single days are offered.

JUNE 10 – JUNE 14

JUNE 17 – JUNE 21

JUNE 24 – JUNE 28

JULY 8 – JULY 12

JULY 15 – JULY 19

JULY 22 – JULY 26

JULY 29 – AUGUST 2

AUGUST 5 – AUGUST 9

**\$80 MEMBERS | \$90 NON-MEMBERS**

## MEMBERS SAVE!

Join today and support science learning for everyone! Not only will you receive a discount on your classes, but you'll enjoy a year of great benefits including free IMAX tickets and exclusive Science Center experiences for Members only!

### Joining Is Easy

To become a new Member or renew your current Membership, just fill out the Membership area of the registration form on page 18 and include your Membership payment along with your camp fee. For more details about the benefits and levels of Membership, call **213.744.7504** or visit [californiasciencecenter.org/support/join](http://californiasciencecenter.org/support/join).

main parking lot and walk to the Wallis Annenberg Building to check in their camper(s). Please go to [californiasciencecenter.org](http://californiasciencecenter.org) for a map of the grounds. TUESDAY-FRIDAY, parents/guardians must DROP OFF their camper(s) under the United airplane off FIGUEROA BLVD. and STATE DR. Parents/guardians arriving late must park in the main parking structure and walk their camper into the Wallis Annenberg Building.

### Pick-Up

Camper(s) must be picked up at the end of the program each day. PARK in the main parking structure and walk to pick up camper(s) on the steps of the Wallis Annenberg Building. To ensure the safety of campers, we require that all students be dismissed by the instructor only to parents, guardians, or authorized adults. Campers will not be allowed to meet parents outside of the pick-up area.

## SNACKS AND LUNCH

Lunch will not be provided by the California Science Center Foundation. Camper(s) must bring their own lunches if taking a full-day class or two half-day classes. Snacks and water are recommended. Camper(s) will not be allowed to purchase lunch in or around the Science Center. During lunch time, campers will be supervised by camp staff and taken to their next class. Parents do not need to pick up their camper for lunch if their camper is attending camp for a full day.



## SUMMER CAMP RULES

In order to ensure a safe and fun environment for each camper, we ask that you read through the following camp rules with your child. The rules are designed to guarantee the positive learning experience and environment that every child deserves.

Please be respectful of other campers and staff. All campers and staff deserve to be treated with respect and kindness. No verbal or physical abuse will be allowed (examples: fighting, name-calling, and making fun of other campers).

The Hands-On Science Camp staff are there to reinforce the safety and fun of each camper by ensuring the rules are followed.

CALIFORNIA SCIENCE CENTER FOUNDATION  
700 EXPOSITION PARK DRIVE  
LOS ANGELES, CA 90037

MAIN NUMBER: 213.744.7400  
FAX: 213.744.2052  
CAMP INFO: 213.744.7444  
CALIFORNIASCIENCECENTER.ORG/CAMP

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# dogs!

## A SCIENCE TAIL

exhibition

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California Science Center

[californiasciencecenter.org](http://californiasciencecenter.org)

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