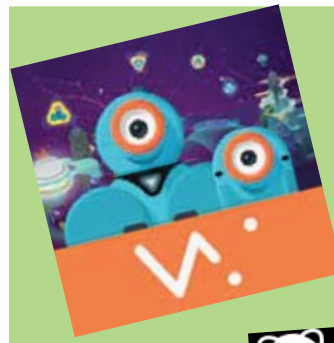


TURN PLAY TIME
INTO FUN LEARNING

MINECRAFT

ROBLOX



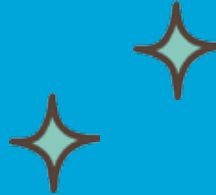
WONDER
WORKSHOP
ROBOTICS



CODING FOR KIDS



2024



YOUTH SCIENCE CENTER
IN PERSON
SUMMER CAMP

6/3-7/12

8:30AM-5:30PM

6 WEEK PROGRAM

KINDER-8TH GRADE

EACH CLASS: 1.5-3 HRS/5 DAYS A WEEK



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DESIGN

ROCKETRY

ART

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CLASS INFORMATION: DIANA@YOUTHSCIENCECENTER.ORG

CALL (626) 588-7818

REGISTRATION INFORMATION: ELAINE@YOUTHSCIENCECENTER.ORG

June 3 -June 7 (Week 1)

Time	Grade Level	Class Title	Subject	Description	Member*	Non-Member
8:30 - 11:45	K-2nd	#101 New! Power-Up Jr.	Nutrition	Learn about healthy foods and how they can give your immune system super powers to fight off villainous diseases with energy to spare. You will even get to try some these yummy healthy foods!	\$134	\$145
		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	#102 New! Power-Up	Nutrition	Learn about healthy foods and how they can give your immune system super powers to fight off villainous diseases with energy to spare. You will even get to try some these yummy healthy foods!	\$134	\$145
		Short Clips: Digital Animation Lab	Digital Animation	Learn to create digital effects to bring doodles to life through simple and fun animation exercises, sparking imagination and storytelling skills.		
6th-8th	#103 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.	\$143	\$155	
12:30 - 3:45	K-2nd	#104 Trash to Treasure 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.	\$134	\$145
	3rd-8th	#105 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!	\$143	\$155
	5th-8th	#106 GIMP Animation and Photo Editing	Graphic Design	Learn how to edit photos and create animations using GNU Image Manipulation Program. Students can either create their own character or create a character from a photo. Students will then do advanced editing using GIMP software on their photo to create their own animation movie. Students can repeat classes, learn new techniques in each class, and start their projects from their own level.	\$143	\$155
4:00 - 5:30	K-4th	#107 Art Around the World in 5 Days	Art Science	Come join us for a fun filled 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!	\$69	\$75
	3rd-8th	#108 Minecraft.edu	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.	\$74	\$80

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June 10-June 14 (Week 2)

Time	Grade Level	Class Title	Subject	Description	Member*	Non-Member
8:30 - 11:45	K-2nd	#201 Lil' Farmers	Farm	Get ready to "plant" yourself into the world of sustainable farming. You will be creating mini composting bins, water purifying units, bird feeders, pots to grow your own plants, and much more.	\$134	\$145
		Battle Bots	Robotics	Use your creative thinking skills and your competitive nature to program your robots, to complete the balloon popping challenge, to wrestle your robot gladiators, and much more in this fun robot engineering class.		
	3rd-5th	#202 Candy Crush Chemistry	Chemistry	What is sweet, slimey, and crunchy? Candy of course! Learn how you can use chemistry to make your own candy concoctions in this sweet class.	\$134	\$145
		New! ToonFit Adventures: Pikachu, Sonic, Powerpuff Girls, Oh My!	Entertainment Technology	Get your bodies moving by harnessing Pikachu's powers, channeling Teen Titans super abilities, procuring Sonic the Hedgehog's lightning speed, securing The Powerpuff Girls' super powers, and many more. Watch short clips to understand, discuss, and draw these powers then have friendly challenges to see who can jump the highest, run the fastest, throw the farthest, and etc.		
6th-8th	#203 Handyman: 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.	\$143	\$155	
12:30 - 3:45	K-2nd	#204 New! ToonFit Adventures: Pikachu, Sonic, Powerpuff Girls, Oh My!	Entertainment Technology	Get your bodies moving by harnessing Pikachu's powers, channeling Teen Titans super abilities, procuring Sonic the Hedgehog's lightning speed, securing The Powerpuff Girls' super powers, and many more. Watch short clips to draw connections between physics and human anatomy involved in possessing these powers by putting your bodies to the test by having friendly sporting and mental challenges to see who can jump the highest, run the fastest, throw the farthest, and etc.	\$134	\$145
	3rd-8th	#205 Planet Engineers: Terraforming Mars and Beyond	Astronomy	Embark on an extraordinary journey into the realm of space exploration and planetary transformation. In this hands-on class, kids will delve into the concept of terraforming, discovering the scientific principles behind transforming inhospitable environments into habitable ones. Kids will be introduced to the hypothetical technologies involved in terraforming. From creating artificial atmospheres to generating sustainable ecosystems, students will explore imaginative solutions to transform Mars and other planets, as well as experience our inflatable Starlab planetarium.	\$143	\$155
	5th-8th	#206 Arduinos: Microprocessor Programming	Computer Science	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.	\$143	\$155
4:00 - 5:30	K-4th	#207 STEAM Fusion Explorers	General Science	Welcome to "STEAM Fusion Explorers," an innovative and dynamic class designed to inspire young minds through the exciting integration of Science, Technology, Engineering, Arts, and Mathematics (STEAM). This class provides a holistic approach to education, fostering creativity, critical thinking, and problem-solving skills across a wide spectrum of disciplines.	\$69	\$75
	3rd-8th	#208 Minecraft.edu	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.	\$74	\$80

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June 17 - June 21 (Week 3)

Time	Grade Level	Class Title	Subject	Description	Member*	Non-Member
8:30 - 11:45	K-2nd	#301 New! Eco-Entrepreneurs: No Sew Fashion	Entrepreneur	Have you ever thought about being your own boss or about making money with your own designs? Well, in this eco entrepreneur class, not only will you learn to save money and use your imagination and creativity to create no sew clothing, puppets, cases, bags, cozies, and other useful household items, but you will also learn how you can become a steward of our planet by recycling old and unwanted clothing, fabric, toys, plastic knick-knacks, and etc to free up space in our landfills. Be your own boss, learn to recycle and gift or sell your fashions designs while protecting the planet.	\$134	\$145
		Coding for Kids	Computer Science	Come join us for all new activities that will teach kids how to use critical thinking skills, identify "bugs" and how to solve them, how to follow and predict a set of instructions, and decompose 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	#302 New! The Art of Science and the Great Outdoors	Art Science	Join us for an exploration into the beauty of the natural world through the eyes of young scientists and artists. Join us for an unforgettable journey where creativity blossoms, scientific curiosity flourishes, and the great outdoors becomes a boundless canvas for learning and inspiration.	\$143	\$155
		Lego Fortnite: STEM Adventures	Entertainment Technology	Foster strategic thinking and planning as students design and build their own Lego Fortnite-inspired geologic landscapes and biomes with Lego avatars. Learn about geology and nature while encouraging discussions on defense strategies, resource management, and teamwork dynamics. Level up your Lego Fortnite creativity into this STEM adventure class!		
6th-8th	#303 Minecraft: Survival City	Entertainment Technology	In Minecraft Survival mode students will study how humans affect the world around them by building a city in survival mode. Students will study landforms and biomes of the world, gather resources, city plan, design buildings in different architectural styles, and build infrastructure.	\$143	\$155	
12:30 - 3:45	K-2nd	#304 Crafty Anatomy	Anatomy	Learn basic anatomy concepts through interactive games and activities; kids will learn about different body parts and their functions, and get creative with medical-themed crafts to reinforce the concepts learned during the class.	\$134	\$145
	3rd-8th	#305 Disease Detective	Epidemiology	Learn all about viruses and bacterium and how they are spread and what you can do to protect yourself. Students will grow bacteria, create virus models, experiment with microbes, create a hazmat suit, and much more.	\$134	\$145
	5th-8th	#306 Minecraft: Redstone Engineers	Entertainment Technology	Learn about circuits and electrical engineering by building redstone machines in Minecraft. Redstone is the Minecraft name for copper and can be used to make wires, batteries, clocks and all sorts of machines. If your student is a tinkerer they will love this class.	\$143	\$155
4:00 - 5:30	K-4th	#307 Clay Engineering Jr.	Engineering	Sculpt your way into the heart of this class with hands-on clay modeling sessions. Kids will learn how to manipulate clay to construct buildings, bridges, and other engineering marvels, fostering creativity and fine motor skills.	\$69	\$75
	3rd-8th	#308 Minecraft.edu	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.	\$74	\$80

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June 24 - June 28 (Week 4)

Time	Grade Level	Class Title	Subject	Description	Member*	Non-Member
8:30 - 11:45	K-2nd	#401 Critters in the Classroom	Biology	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? Well, then come join us and learn about different bugs and how they are an indispensable part of our ecosystem. The best part of this class, though, is that you can even get to take some of these critters home!	\$134	\$145
		Codemoji: Beginning Java Script	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	#402 Astronomy: It's Out of This World	Astronomy	No longer are we just the 3rd rock from the Sun. Come explore our newly discovered space neighbors, new planets, new galaxies, and much more! See how Newton's Laws are everywhere in known existence. Learn about dwarf planets and stellar evolution. Experiment on a moonscape of your own. Using experiments and crafts, learn about the not-so-final frontier.	\$134	\$145
		Battle Bots	Robotics	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		
6th-8th	#403 Blender: 3D Animation	Graphic Design	Blender's, a top rated 3D computer graphic software tool, comprehensive array of modeling tools make creating, transforming and editing your models a breeze. Learn how to use the powerful tools in Blender to create 3D shapes and characters while learning the different aspects of lighting and shading. Students will be introduced to camera angles and animation of their own creations!	\$143	\$155	
12:30 - 3:45	K-2nd	#404 Slimy Science II	Chemistry	Like things that ooze, things that are squishy, things that are icky, and things that are slimy? Then come join us for all new slime activities and learn the chemistry behind many different types slimes!	\$134	\$145
	3rd-8th	#405 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.	\$134	\$145
	5th-8th	#406 3D Laser Cutter & Engraver: Personalized Gifts	3D Laser & Engraver	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.	\$143	\$155
4:00 - 5:30	K-4th	#407 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!	\$69	\$75
	3rd-8th	#408 Minecraft.edu	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.	\$74	\$80

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July 1 - July 3 (Week 5) **No class on July 4 & 5**

Time	Grade Level	Class Title	Subject	Description	Member*	Non-Member
8:30 - 11:45	K-2nd	#501 Candy Crush Chemistry	Chemistry	What is sweet, slimy, and crunchy? Candy of course! Learn how you can use chemistry to make your own candy concoctions in this sweet class.	\$81	\$87
		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	#502 CSI-Spy Lab	Criminal Forensics	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.	\$81	\$87
		Short Clips: Digital Animation Lab	Digital Animation	Dive into the world of animation where young artists can embrace the world of digital art, expressing their creativity in innovative and exciting ways. Learn to create digital effects to bring doodles to life through simple and fun animation exercises, sparking imagination and storytelling skills.		
6th-8th	#503 3D Laser Cutting and Woodworking	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.	\$86	\$93	
12:30 - 3:45	K-2nd	#504 Geology Rocks	Geology	Embark on a thrilling journey into the fascinating world of rocks and minerals. In this hands-on class, kids will delve into the wonders of the Earth beneath their feet, fostering a love for geology through interactive activities and exciting discoveries. Kids will get to express creativity through geology-inspired crafts, create their own rock collections, paint geological landscapes, and even craft their interpretation of Earth's layers.	\$81	\$87
	3rd-8th	#505 New! Pet Vets	Engineering Geology	This hands-on veterinarian class is designed to instill a sense of empathy, responsibility, and curiosity about the well-being of animals. Through a blend of play, exploration, and creative activities, our Pet Vet class will leave young learners excited about the world of veterinary care and the importance of kindness to animals.	\$81	\$87
		Dissections	Engineering Geology	Have you ever wanted to know how organisms work from the inside? How the structure of an organism helps it survive in the wild? Come be a biological researcher and explore how things work through dissection! Students will explore the inner workings of 3 different animals in this hands-on minds-on class.		
5th-8th	#506 Short Clips: Digital Animation Lab	Digital Animation	Dive into the world of animation where young artists can embrace the world of digital art, expressing their creativity in innovative and exciting ways. Learn to create digital effects to bring doodles to life through simple and fun animation exercises, sparking imagination and storytelling skills.	\$86	\$93	
4:00 - 5:30	K-4th	#507 New! Eco-Entrepreneurs: No Sew Fashion	Entrepreneur	Have you ever thought about being your own boss or about making money with your own designs? Well, in this eco entrepreneur class, not only will you learn to save money and use your imagination and creativity to create no sew clothing, puppets, cases, bags, cozies, and other useful household items, but you will also learn how you can become a steward of our planet by recycling old and unwanted clothing, fabric, toys, plastic knick-knacks, and etc to free up space in our landfills. Be your own boss, learn to recycle and gift or sell your fashions designs while protecting the planet.	\$42	\$45
	3rd-8th	#508 Minecraft.edu	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.	\$45	\$48

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July 8 - July 12 (Week 6)

Time	Grade Level	Class Title	Subject	Description	Member*	Non-Member
8:30 - 11:45	K-2nd	#601 Trash to Treasures Crafts	Upcycling	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.	\$134	\$145
		Coding for Kids	Computer Science	Come join us for all new activities that will teach kids how to use critical thinking skills, identify "bugs" and how to solve them, how to follow and predict a set of instructions, and decompose 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	#602 Roller Physics	Physics	In this hands-on class, kids will dive into the world of dynamic motion, exploring the physics principles behind iconic modes of transportation and dynamic objects. From the thrill of skateboards and roller coasters to the mechanics of cars, bicycles, motorcycles, and more, students will embark on a comprehensive journey into the science of movement. This class is a dynamic exploration of the scientific principles that govern the movement of everyday objects. Join us as we ride, roll, and experiment our way through the captivating world of physics in motion!	\$134	\$145
		GIMP: Meme Maker	Graphic Design	Learn how to edit images and create animated memes and emojis using the GNU Image Manipulation Program. Students can either create their own memes or create a character from a photo. Students will then do advanced editing using GIMP software on their images to create their own animated memes and emoji to use on social media. Students can repeat classes, learn new techniques in each class, and start their projects from their own level.		
6th-8th	#603 Lego Fortnite: STEM Adventures	Entertainment Technology	Foster strategic thinking and planning as students design and build their own Lego Fortnite-inspired geologic landscapes and biomes with Lego avatars. Learn about geology and nature while encouraging discussions on defense strategies, resource management, and teamwork dynamics. Level up your Lego Fortnite creativity into this STEM adventure class!	\$143	\$155	
12:30 - 3:45	K-2nd	#604 The Science of Sound	Cymatics	Cymatics is an emerging science that blends sound and matter. In this class you not only get to hear music, but you will also get to SEE it. Learn the physics behind cymatics, get to rock out to music created by your own instruments, and learn about different vocal ranges by studying famous singers.	\$134	\$145
	3rd-8th	#605 Inventor's Lab: Crafting Scientific Wonders	Physics/Engineering	"Inventor's Lab" is not just a class; it's an immersive adventure where young inventors explore, craft, and learn the science behind the world-changing inventions that shape our lives. Join us as we unlock the potential of inventive minds and ignite the spark of innovation!	\$134	\$145
	5th-8th	#606 Python: Computer Programming	Computer Science	In this class, students will learn how to code interactive projects in Python- a text-based programming language that is widely used in making web applications. Through project based lessons, students will be first introduced to the interactive coding environment, variables, conditionals, and loops all while manipulating their own sprites.	\$143	\$155
4:00 - 5:30	K-4th	#607 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!	\$69	\$75
	3rd-8th	#608 Minecraft.edu	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.	\$74	\$80

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