

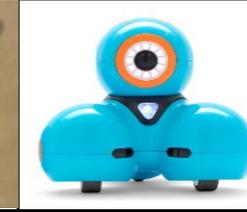
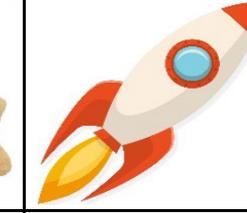
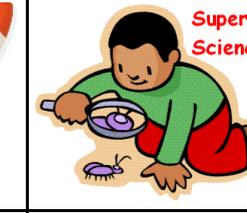
SUMMER CAMP 2019

STEAM WORKS STUDIO
135 Village Blvd, PRINCETON, NJ
steamworksstudio.com



CLICK HERE TO REGISTER!

Ages 4-6 (PreK-KG)

	June 24-28	July 1-3	July 8-12	July 15-19	July 22-26	July 29-Aug 2	Aug 5-9	Aug 12-16	Aug 19-23	Aug 26-30
9-12p Morning Session	Little Doctors 	Stars & Stripes 	Going Green 	Super Science 	Jurassic Park 	Animal Planet 	Star Wars 	Little Doctors 	Up and Away! 	Super Science 
	<p>Little Doctors camp presents medicine, science, and the importance of health & hygiene in an entertaining & fun way! Role play using tools that doctors use in the real world to learn all about how the body works. This camp is surely going to inspire our little doctors of tomorrow!</p>	<p>Celebrate the birth of our country with a Party in the USA mini camp! For 3 days we will be crafting a number of patriotic projects. From paper LED fireworks using copper tape and batteries to animation using easy to use drag and drop blocks, campers are sure to have fun both celebrating and learning!</p>	<p>Going Green teaches children to love and respect the Earth and all she provides. In this camp we will learn about the environment, sustainability, and threats to our planet. Campers will delight in making their own bird feeders and creating toys out of recycled materials! Sustainability is the future!</p>	<p>A practical hands-on science and craft camp for kids to enjoy and explore the amazing world of science! Conduct experiments with food coloring, baking soda and other safe ingredients. Make your own oobleck! Build paper airplanes, sturdy bridges, and balloon powered cars amongst other fun STEM activities.</p>	<p>Obsessed with dinos? Sign-up for our Jurassic Park camp where campers will learn all about dinosaurs, how they evolved, where they roamed, what they ate, and why they're now extinct. Participate in an excavation to uncover mysterious fossils and build your own dinosaur out of laser-cut parts!</p>	<p>Discover the wonders of animal life in our Animal Planet camp! Campers will work on a number of animal themed projects from a variety of mediums including electronics, clay, animation, paper, canvas, and more! Learn to make a butterfly that can actually fly and a lightning bug that really lights up!</p>	<p>Send your younglings off to Star Wars camp to train as Jedi Knights! We will learn to program robots similar to R2D2, craft clay aliens, create galactic paintings, and build LED light-up lightsabers! Art and Crafts as well as learning by playing with a Robot! Each day will end with a few minutes of Jedi meditation ensuring they are focused and using the 'force' for good.</p>	<p>Little Doctors camp presents medicine, science, and the importance of health & hygiene in an entertaining & fun way! Role play using tools that doctors use in the real world to learn all about how the body works. This camp is surely going to inspire our little doctors of tomorrow!</p>	<p>Explore the wonders of sky and space! Learn how man and animals defy gravity! From birds to planes, we'll study the workings of flying machines. Campers will spend the week crafting mini rockets, airplanes, parachutes, and more! Loads of colorful hands-on activities, music & art combined with physical discovery and role play!</p>	<p>A practical hands-on science and craft camp for kids to enjoy and explore the amazing world of science! Conduct experiments with food coloring, baking soda and other safe ingredients. Make your own oobleck! Build paper airplanes, sturdy bridges, and balloon powered cars amongst other fun STEM activities.</p>
LUNCH (12-1p) + Outdoor Blast (Soccer, Frisbee, Volley Ball, Stretches & Physical Activities!)										
1-4p Afternoon Session	Little Doctors 	Stars & Stripes 	Going Green 	Super Science 	Jurassic Park 	Animal Planet 	Star Wars 	Little Doctors 	Up and Away! 	Super Science 
	<p>Little Doctors camp presents medicine, science, and the importance of health & hygiene in an entertaining & fun way! Role play using tools that doctors use in the real world to learn all about how the body works. This camp is surely going to inspire our little doctors of tomorrow!</p>	<p>Celebrate the birth of our country with a Party in the USA mini camp! For 3 days we will be crafting a number of patriotic projects. From paper LED fireworks using copper tape and batteries to animation using easy to use drag and drop blocks, campers are sure to have fun both celebrating and learning!</p>	<p>Going Green teaches children to love and respect the Earth and all she provides. In this camp we will learn about the environment, sustainability, and threats to our planet. Campers will delight in making their own bird feeders and creating toys out of recycled materials! Sustainability is the future!</p>	<p>A practical hands-on science and craft camp for kids to enjoy and explore the amazing world of science! Conduct experiments with food coloring, baking soda and other safe ingredients. Make your own oobleck! Build paper airplanes, sturdy bridges, and balloon powered cars amongst other fun STEM activities.</p>	<p>Obsessed with dinos? Sign-up for our Jurassic Park camp where campers will learn all about dinosaurs, how they evolved, where they roamed, what they ate, and why they're now extinct. Participate in an excavation to uncover mysterious fossils and build your own dinosaur out of laser-cut parts!</p>	<p>Discover the wonders of animal life in our Animal Planet camp! Campers will work on a number of animal themed projects from a variety of mediums including electronics, clay, animation, paper, canvas, and more! Learn to make a butterfly that can actually fly and a lightning bug that really lights up!</p>	<p>Send your younglings off to Star Wars camp to train as Jedi Knights! We will learn to program robots similar to R2D2, craft clay aliens, create galactic paintings, and build LED light-up lightsabers! Art and Crafts as well as learning by playing with a Robot! Each day will end with a few minutes of Jedi meditation ensuring they are focused and using the 'force' for good.</p>	<p>Little Doctors camp presents medicine, science, and the importance of health & hygiene in an entertaining & fun way! Role play using tools that doctors use in the real world to learn all about how the body works. This camp is surely going to inspire our little doctors of tomorrow!</p>	<p>Explore the wonders of sky and space! Learn how man and animals defy gravity! From birds to planes, we'll study the workings of flying machines. Campers will spend the week crafting mini rockets, airplanes, parachutes, and more! Loads of colorful hands-on activities, music & art combined with physical discovery and role play!</p>	<p>A practical hands-on science and craft camp for kids to enjoy and explore the amazing world of science! Conduct experiments with food coloring, baking soda and other safe ingredients. Make your own oobleck! Build paper airplanes, sturdy bridges, and balloon powered cars amongst other fun STEM activities.</p>



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Grade 1-2

		June 24-28	July 1-3	July 8-12	July 15-19	July 22-26	July 29-Aug 2				
9-12p Morning Session	Minecraft	Party in the USA	Forensic Files	Little Doctors	Star Wars	Going Green	Lunar Base	Cartooning	Director's Cut	Jurassic Park	
	Obsessed with Minecraft? Join Minecraft camp to create your own games & animations! Learn to code using SCRATCH's easy "drag and drop programming". All projects are with Minecraft as the theme for the week. Coding helps young kids learn to think creatively, reason systematically, & work collaboratively.	Celebrate the birth of our country during the July 4th week at our "Party in the USA" mini camp! For 3 days campers will craft patriotic projects including simple electronics (LED lights, Magnets), animation and coding, art and crafts, rocketry, and LEGO robotics! This camp is sure to be a blast!	Somebody's stolen the President's rubies! The FBI needs your help to catch the thief! Learn all about forensics, fingerprinting, code breaking, and more to solve clues leading to the criminal's arrest. Campers become problem solvers and also learn to work in a team while having endless fun looking for this crafty thief!	Little Doctors camp presents medicine, science, and the importance of health & hygiene in an entertaining & fun way! Role play with tools doctors use in the real world to learn how the body works. Study cells and even grow bacteria! This camp is sure to inspire our little doctors of tomorrow!	Send your younglings off to Star Wars camp to train as Jedi Knights! We will learn to program robots similar to R2D2, craft clay aliens to use in stop motion animation, create galactic paintings, and build LED lightsabers! This camp is sure to get kids thinking about technology that is out of this world!	Going Green teaches children to love and respect the Earth & all she provides. In this camp we will learn about the environment, sustainability, and threats to our planet. Campers will delight in making their own bird feeders, creating toys out of recycled materials or build robots that can help in making a Sustainable future!	Space is the place! In this camp students are challenged to make a Lunar Base while learning robotics, science and engineering skills. They will use LEGO bricks, sensors, motors, gears, and block coding to prep their rover for an outerspace expedition! They will think and create projects about energy, water, food, air, transport on the moon!	Send your child to Cartooning camp to enhance their drawing skills and unleash their creativity! They are sure to have a great time learning new techniques whilst doing something they love! If they can dream it, they can draw it! In a simple step-by-step manner campers learn how to draw faces, hair, adding realism to their favorite character!	Lights, camera, action! In Director's Cut, campers call the shots. Using Stop Motion Animation they will create their own mini movie masterpiece! From crafting clay characters to painting backgrounds, from editing to script writing, these budding "Spielberg's" will learn all there is about movie making.	Obsessed with dinos? Sign-up for our Jurassic Park camp where campers will learn all about dinosaurs, how they evolved, where they roamed, what they ate, and why they're now extinct. Participate in an excavation to uncover mysterious fossils & build your own dinosaur out of laser-cut parts! Build a LEGO robotic moving dino!	
	LUNCH (12-1p) + Outdoor Blast (Soccer, Frisbee, Volley Ball, Stretches & Physical Activities!)										
	1-4p Afternoon Session	Pottery	Party in the USA	The Jungle Book	Crazy Chemistry	Animal Planet	Cooking & Chemistry	Crazy Chemistry	Time Travellers	Arctic Explorers	Avengers
		Create your own ceramic bowls, ornaments, figurines, and more at Pottery Camp! Practice your motor skills whilst throwing and sculpting clay, then create, paint, glaze, and fire gorgeous unique pieces you get to take home! This is one camp you don't want to miss.	Celebrate the birth of our country during the July 4th week at our "Party in the USA" mini camp! For 3 days campers will craft patriotic projects including simple electronics (LED lights, Magnets), animation and coding, art and crafts, rocketry, and LEGO robotics! This camp is sure to be a blast!	A Robotics program with a Jungle book theme! Think Mowgli™ and his animal friends! Monkey around using motors, gears, pulleys, and sensors to create fun Jungle themed missions! Campers will learn about simple machines like gears to create motion. It's problem solving & logical thinking with block coding!	Embrace your inner mad scientist at our Crazy Chemistry Camp! Conduct zany, safe experiments to learn all about elements, chemical properties, and reactions! Make oobleck and eat exothermic ice cream! Like the combination of baking soda and vinegar, this camp is sure to be a blast!	Embrace your love of animals at our Animal Planet camp! We will be learning more about our favorite species through a multitude of projects including stop motion animation, LED circuits, making robots that move & light up, art, & coding programs. A monkey that climbs on vines, a frog that jumps & croaks!	Learn life-long skills and science at our Cooking & Chemistry camp! Discover colloids, look at yeast under a microscope, make rock salt ice cream, baking with colorful cup cakes & cookie chemistry and grow candy crystals! Science has never been so sweet!	Embrace your inner mad scientist at our Crazy Chemistry Camp! Conduct zany, safe experiments to learn all about elements, chemical properties, and reactions! Make oobleck and eat exothermic ice cream! Like the combination of baking soda and vinegar, this camp is sure to be a blast!	Travel through the wormhole of time and space at our Time Travellers camp! In this camp we'll be learning about the past, present, and future through a multitude of projects. Discover fire like the cavemen! Build a dinosaur skeleton out of laser-cut pieces! Learn to assemble and program a robot with a time travel theme!	Cool off with our Arctic Explorers camp! Learn about all things Arctic, including the magnetization of the North and South Poles, the differences between water and ice, and how life thrives in such a harsh environment. Plus, indulge in and make-your-own rock salt ice cream!	Assemble Avengers! Use your powers for good in this superhero themed camp! Craft an LED Ironman that really lights up! Grow kryptonite crystals, learn to draw your favorite Avengers characters, and animate your favorite characters! Don't miss out on this camp. It's going to be SUPER!



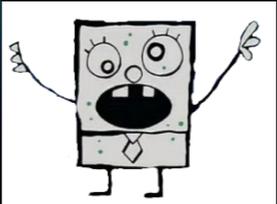
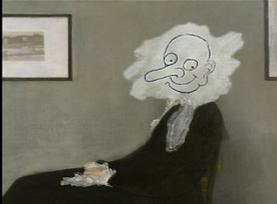
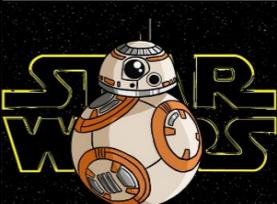
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SUMMER CAMP 2019

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Grade 1-2



		Aug 5-9		Aug 12-16		Aug 19-23		Aug 26-30	
9-12p Morning Session		Sport Bots	Little Doctors	Director's Cut	Ancient Egyptians	Creature Craze	Cartooning	Forensic Files	I am an Architect
									
		Design & program a robot that can do Push-Ups And Pull ups. Design & learn to code an entertainer-Psy-Gangam style dancer bot to dance with music. A Biker robot that can cycle, balance and move. Test different gear combinations to make the bike go faster. Design and program to row a boat with a machine, and called it "Row-Bot". Let's join a Ski Race with our own Robot creations!	Little Doctors camp presents medicine, science, and the importance of health & hygiene in an entertaining & fun way! Role play with tools doctors use in the real world to learn how the body works. Study cells and even grow bacteria! We will also use a Compound microscope and see different kinds of cells. This camp is sure to inspire our little doctors of tomorrow!	Lights, camera, action! In Director's Cut, campers call the shots. Using Stop Motion Animation they will create their own mini movie masterpiece! From crafting clay characters, LEGO mini figures and backdrops to painting backgrounds, from editing to story boarding and script writing, these budding Spielbergs will learn all there is about movie making.	This summer...travel to ancient Egypt! Build your own Lego pyramid complete with sensor activated secret passages, hidden rooms, and a pharaoh's chamber! Laser-print your name onto a wooden plate in ancient hieroglyphics! Learn more about electronic circuits by crafting a mummy with light-up LED eyes! Even 3D print a sphinx!	Embrace your love of animals at our Animal Planet camp! We will be learning more about our favorite species through a multitude of projects including stop motion animation, LED circuits, robotics, art, and coding amongst others. Problem solving and creativity have never been this fun when you see your own robotic creature come alive and respond to you!	Send your child to Cartooning camp to enhance their drawing skills and unleash their creativity! They are sure to have a great time learning new techniques whilst doing something they love! If they can dream it, they can draw it! Learn from professional artists a basic drawing techniques and give your caricature and cartoon drawing skills a massive leg up!	OH NO! Someone has defaced this priceless work of art! CAMPERS TO THE RESCUE! Investigate the crime scene using forensic tools such as black light fingerprinting, DNA testing, and more! Interrogate suspects, participate in a police sketch, and take part in other techniques detectives use to find and put away the guilty party. Forensic Files camp is sure to instill a sense of teamwork, creative	Build a detailed model of the New York City Skyline, including the Statue of Liberty! If you have a child with an interest in architecture, this camp is a must. Learn about domes from across the world! From igloos to Bucky Fuller's minimalist structural frames, this amazing shape has many uses. Building an Eiffel tower model & and much more!
LUNCH (12-1p) + Outdoor Blast (Soccer, Frisbee, Volley Ball, Stretches & Physical Activities!)									
1-4p Afternoon Session		Crazy Chemistry	Going Green	Music & Art	Wild West	Cooking & Chemistry	Jurassic Robots	Crazy Chemistry	Star Wars
									
		Unleash your inner mad scientist at our Crazy Chemistry camp! Conduct zany, safe experiments to learn all about elements, chemical properties, and reactions! Make Oobleck and eat exothermic ice cream! Like the combination of baking soda and vinegar, this camp is sure to be a blast! Make a penny battery or make a magic potion that when shaken changes color!	Going Green teaches children to love and respect the Earth and all she provides. In this camp we will learn about the environment, sustainability, and threats to our planet. Campers will delight in making their own bird feeders and creating toys out of recycled materials, solar energy based projects, clean water hands-on projects! Sustainability is the future!	Sing your heart out at our Music and Arts camp! Try your hand at different instruments including Piano, Guitars, Drums and Ukulele. Learn to make your own maracas! 3D print a whistle and discover the magic of crafting music on a computer, make a virtual piano using drag and drop coding! Dress up and participate in a musical play!	Go wild at Wild West camp! Create a number of western themed projects using STEAM inspired projects! 3D print your own sheriff's star! Laser cut and paint a cactus! A very gentle and fun loving rattle snake robot will tempt you to go close and play with him! But you need to use coding blocks to make him work. Map the starry prairie sky with LED lights! Learn to lasso and more!	Learn life-long skills used in cooking while learning science at our Cooking & Chemistry camp! Discover colloids, look at yeast under a microscope, make rock salt ice cream, and grow candy crystals! Science has never been so sweet! Baking & cooking activities with hands-on Chemistry & live projects will surely leave sweet memories of this Camp!	Obsessed with Dinosaurs? Sign-up for our Jurassic Robots camp where campers will learn all about dinosaurs, how they evolved, where they ate, and why they're now extinct. Learn to use commands (code) to control Sensors & Motors Participate in an excavation to uncover mysterious fossils and build your own dinosaur out of laser-cut parts!	Embrace your inner mad scientist at our Crazy Chemistry Camp! Conduct zany, safe experiments to learn all about elements, chemical properties, and reactions! Make Oobleck & eat exothermic ice cream! Make Invisible Ink that will allow you to exchange secret messages to friends or have loads of fun creating color changing potion which changes colors when shaken!	Send your younglings off to Star Wars camp to train as Jedi Knights! We will learn to build & program robots similar to R2D2, craft clay aliens to use in stop motion animation, create galactic paintings, explore the planet Tatooine (and the Sand people) and build LED light-sabers! This camp is sure to get kids thinking about technology that is out of this world!



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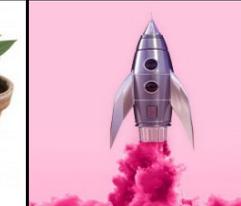
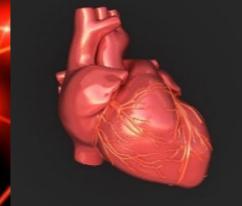
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CLICK HERE TO REGISTER!



Grade 3-5

		June 24-28	July 1-3	July 8-12		July 15-19		July 22-26		July 29-Aug 2	
9-12p Morning Session		EV3 Battle Bots	Red, White & Blue	Stop Motion	Home Bots	Animal Safari	Driverless Cars	Bio-Bits	Space Engineers	Going Green	Flight & Rocketry
											
		Campers learn robotics, engineering, and coding to build a fighting robot! Students can make their own custom design and accessorize them! Utilize LEGOs, gears, and sensors to create a robot that responds to your command! EV3 Battle Bots is an excellent way to motivate children to get deeper into robotics while enhancing their creativity, logical thinking, and social skills.	Join us in celebration of the 243rd birthday of the United States of America! Spend 3 days crafting patriotic projects including red, white, and blue smokers, a flag toting robot, and light-up LED fireworks! Can we use some magic code to make our fireworks to come alive? Learn simple electronics, CAD & 3D Printing and a little about our nation's history too!	You see stop motion animation all the time on TV and in movies even if you don't realize it. This camp offers children the chance to create their own original stories. Throughout the week they will craft clay characters, design backdrops, and learn to edit their films. Be your own movie director, plan, story board, think about props and actors as well as music and sounds.	Kick back and relax while robots do the work for you! Learn to build and program robots that will fold your clothes, feed your pets, sweep LEGO pieces and clean your room, and even alert you to intruders! How about a self-balancing 2 wheeled butler! This camp is sure to enhance students' engineering and programming skills while having incredible fun!	Go wild at Animal Safari camp! Learn more about your favorite animals through STEAM activities! Design clay animal characters to star in a stop motion film you direct! Make a 3D LED light-up anglerfish, create a Cheetah animation! We as a team will make the perfect and sustainably designed Safari park complete with lights, cardboard layouts, water park and animals!	Learn to design, build, power, and program robotic cars! Craft vehicles that can detect pedestrians and parallel park or self park autonomously at the push of a button! This is a great camp for enhancing students' engineering and robotics skills! Can you make a robot to seamlessly change lanes when you detect other cars?	Bio-Bits (MIT) simplifies molecular biology experiments so more time can be spent on learning! Since molecular biology is particularly difficult to teach, these HANDS-ON activities are a great introduction about DNA and proteins. Students get to set up their own actual experiments and see the processes happen before their eyes!	Campers use the engineering design process & team work to create a satellite. These satellites will have to survive a fall from 1m as well as a straw rocket launch without losing any parts. Campers will be using science & math. They will be presented fun & challenging NASA activities they're sure to love.	In a world where we are rapidly running out of resources, sustainability is key! Learn all about green technologies and clean energy. This is a very hands-on camp where students will build solar powered phone chargers and robots that can water house plants. They will also spend time outdoors planting milkweed to aid pollinators.	3, 2, 1, BLAST OFF! Learn all about rockets in Rocketry camp! Design and craft your own bottle rockets. Be sure to sign-up cause this camp is gonna rock! Every day introduces campers to a different rocket technique ex. Air powered, alcohol powered, solid-fuel etc. Get to fly them. 3D Print your own take home rockets!
LUNCH (12-1p) + Outdoor Blast (Soccer, Frisbee, Volley Ball, Stretches & Physical Activities!)											
1-4p Afternoon Session		Escape Room	Red, White & Blue	Avengers	Mission Impossible	Little Doctors	Star Wars	Forensic Files	Pottery	Puppetry	EV3 Mars Mission
											
		Will you escape? Use problem solving skills and team work to escape a "locked" room. Complete electrical, coding, programming, and other challenges to find your way to freedom! This camp is sure to enhance students' engineering, logical and creative thinking skills. Learn CAD & 3D Print a special key that sets you free!	Join us in celebration of the 243rd birthday of the United States of America! Spend 3 days crafting patriotic projects including red, white, and blue smokers, a flag toting robot, and light-up LED fireworks! Can we use some magic code to make our fireworks to come alive? Learn simple electronics, CAD & 3D Printing and a little about our nation's history too!	Avengers assemble! Learn all about superhero technology at Avengers camp! Make an LED light up Iron Man action figure! Direct your own stop motion superhero movie! Discover the science behind your favorite superhero gadgets including invisibility, super strength, laser sight, spider skills, and more! CAD & 3D Print and take home your cool gadgets!	Do you have what it takes to be a spy? Learn about spy history and technologies in Mission Impossible camp! Campers will also learn about optics, lasers and the physics of light! Campers will build take home periscopes, Galilean telescopes, virtual reality goggles as well as explore properties of light, optical illusions, fiber optics and much more!	Interested in health, medicine, and the human body? Sign-up for our Little Doctors camp! Diagnose patients & look at your very own cells from underneath a microscope! Collect bacteria and grow it in a petri dish. Learn how to sew stitches & 3D print a model of the heart. Campers design a stethoscope & a cool microscope to take home!	Love Star Wars? Explore futuristic technology seen in the films! Build a BB8 droid and create an LED lightsaber! Craft clay porgs to star in your very own stop motion animation film! Plus, learn to laser-cut the blueprints to the Millennium Falcon! Camp doesn't get any cooler than this! Learn to design using CAD and then 3D Print cool Star Wars themed things and bots!	There's been a murder! Team up with the FBI for a week to help catch a criminal. Learn about forensics, investigate a crime scene, test DNA, interrogate suspects, analyze writing, and break codes! This camp is sure to provide a wonderful and engaging basis for campers interested in forensics, law, and justice!	Get your hands dirty at Pottery camp! Learn how to throw clay on a wheel to make bowls, mugs, vases, and more! Craft figurines and make holiday ornaments. Have fun learning to paint, glaze, and fire pieces you get to take home at the end of the week! Highly creative camp that teaches a variety of art and social skillsets!	Learn to make your own crazy puppets at Puppetry camp! Design and sew puppets similar to the the muppets! Take your creations home! Children will be creating their own puppet characters using a range of soft fabric materials. Utilising recycled materials with wire, glue and loads of imagination, children create fantastical creature puppets from junk.	In EV3 Mars Mission campers learn to build and program a Mars rover! They must work as a team to overcome a series of challenges including craters and uneven terrain. This camp prepares students for LEGO competitions of a similar nature. Campers will learn sensor control, programming, testing and engineering design!



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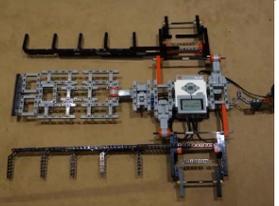
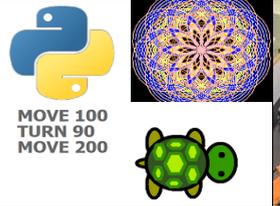
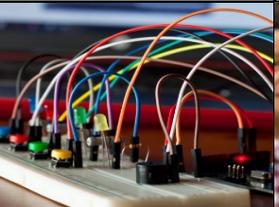
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Grade 3-5

		Aug 5-9		Aug 12-16		Aug 19-23		Aug 26-30	
9-12p Morning Session		Wearable Electronics	Med Bots	Mission Impossible	Pottery	Home Bots	Python Art	EV3 Mars Mission	Cooking & Chemistry
									
		Make a fashion statement with electronics you can wear! Craft your own light-up LED crown, program a flashing wearable safety light, make your own laser glove, and more! Make a moving LED light wearable bracelet, Kaleidoscopic LED ring Goggles or a LED Backpack! We will use conductive threads, LEDs, simple electronics and some coding as required!	Build robots that can change and save lives! Medical Robotics! Robotics is helping mankind overcome many medical conditions. Learn to create a prosthetic arm or a Cyborg Arm, program a bedside bot that responds to your voice, even craft a robot to build bone! Use your design, coding skills! Have fun and learn invaluable skills at Med Bot camp!	Do you have what it takes to be a spy? Learn about spy history and technologies in Mission Impossible camp! Campers will also learn about optics, lasers and the physics of light! Campers will build take home periscopes, Galilean telescopes, virtual reality goggles as well as explore properties of light, optical illusions, fiber optics and much more!	Get your hands dirty at Pottery camp! Learn how to throw clay on a wheel to make bowls, mugs, vases, and more! Craft figurines and make holiday ornaments. Have fun learning to paint, glaze, and fire pieces you get to take home at the end of the week! Highly creative camp that teaches a variety of art and social skillsets!	Kick back and relax while robots do the work for you! Learn to build robots that will fold your clothes, feed your pets automatically at set times, sweep and collect LEGO parts, and even alert you to intruders or make a self standing butler bot! This camp is sure to enhance students' engineering and programming skills!	Python Art camp teaches children to create art from coding! Learn to create stunning colorful mandalas from simple algorithms! Your creations are sure to WOW! Learn basics of this simple but powerful language and its language constructs like loops, conditionals, lists. Employ graphics libraries using Turtle & tKinter & make beautiful simple games!	In EV3 Mars Mission campers learn to build and program a Mars rover! They must work as a team to overcome a series of challenges including craters and uneven terrain. This camp prepares students for LEGO competitions of a similar nature. Campers will learn sensor control, programming, testing and engineering design!	Learn life-long skills used in cooking while learning science at our Cooking & Chemistry camp! Discover colloids, look at yeast under a microscope, make rock salt ice cream & grow candy crystals! Science has never been so sweet! Baking & cooking with hands-on Chemistry & live projects will leave sweet memories of this Camp!
LUNCH (12-1p) + Outdoor Blast (Soccer, Frisbee, Volley Ball, Stretches & Physical Activities!)									
1-4p Afternoon Session		Stop Motion	Masterpiece Art	Locomotion	3D Video Game (Unity)	The Electronics LAB	The Drone Coders!	Avengers	Coding for Games!
									
	You see stop motion animation all the time on TV and in movies even if you don't realize it. This camp offers children the chance to create their own original stories. Throughout the week they will craft clay characters, design backdrops, and learn to edit their films. Storyboard, make a plot, identify actors and props to use. You are the director of your own movie!	Study the styles and techniques of world famous artists such as Van Gogh, Degas, Picasso, Warhol, and Da Vinci. Learn from the masters and enhance your own artistic skills. Try your hand at a plethora of mediums from canvas painting to charcoal, and digital to watercolor. Unleash your creativity at Masterpiece Art camp!	Campers look at the nature and study many forms of locomotion like Geckos, Snakes, Scorpions and then apply the engineering design process to design and build Robots with Suction Cups to climb walls or move using serpentine action or use multiple legs. This Camp is surely going to encourage students to observe the marvels of nature and think deeper about mechanical movements!	Use game objects, models, and levels to create game environments. Students will program interactions with C# and Unity. Starting with a 2D Pacman game students will be introduced to 3D libraries to create FPV arcade games leading into virtual reality experiences. This camp is meant to develop coding and design skills for Campers and will leave a tremendous impact!	Young makers explore learning basics of electronic circuits and how electronic components work, which they can then apply to an idea of their own. Students create their project using everyday materials. Students will use breadboards and will learn to build circuits that blink, squeak, play music, tick and whirl. Learn soldering skills with a custom take home MAKER'S Badge!	Learn to code with a drone as a platform. The perfect introduction to real programming! Coding is done via Blockly (for beginners) or Python (for students who have done some block coding). Execute pin-point turns, flight loops, camera control, gyro turn as well as missions like going to an exact far away place and knocking down all the bowling pins This is done using coding!	Avengers assemble! Learn all about superhero technology at Avengers camp! Make an LED light up Iron Man action figure! Direct your own stop motion superhero movie! Discover the science behind your favorite superhero gadgets including invisibility, super strength, laser sight, spider skills, and more! CAD & 3D Print and take home your cool gadgets!	Kids learn to create their own games, stories & animations with SCRATCH's "drag and drop programming". SCRATCH, by MIT, helps young kids to learn to think creatively, reason systematically, & work collaboratively. Color coded, intuitive drag & drop block programming, as well as sounds, backdrop images and drawings are used. Get kids to code!	



1 (844) 265 9880 or info@steamworksstudio.com

SUMMER CAMP 2019

STEAM WORKS STUDIO
135 Village Blvd, PRINCETON, NJ



CLICK HERE TO REGISTER!

Grade 6-8

	June 24-28	July 1-3	July 8-12	July 15-19	July 22-26	July 29-Aug 2	Aug 5-9	Aug 12-16	Aug 19-Aug 23	Aug 26-Aug 30
9-12p Morning Session	Java Boot Camp	Maker Lab	DIY Smart Car	Sculpting	Blender 3D	Coding with Python	Sustainable Science	Digital Fabrication	Android Mobile Apps	Wearable Tech.
	<p>A Jumpstart to Coding! Begin with a quick programming orientation using the Eclipse environment. Campers will learn to program using best practices and understand what makes JAVA unique and so powerful. JVM, Objects & Classes, Data Types, Arrays, Decision Structures, File I/O & Graphics are introduced!</p>	<p>CAD, 3D Printing, Laser Cutting, embossing and Engraving, Soldering & Electronics, Cheap microcontrollers ex. Arduino/Raspberry Pi and coding... What can you create/invent and take home? You can use our maker lab and tools, project ideas, step by step guidance from experts and create your own invention!</p>	<p>Learn the fundamentals of electrical engineering Explore autonomous robotics code with Arduino microcontroller and its sensor, motor eco-system. Understand & learn to write code for line tracking, obstacle avoidance, IR remote control & Bluetooth control with app on phone. Take your autonomous car home!</p>	<p>Clay is a great medium for students to get introduced to form & express themselves in a fun way. Understand the differences between form and shape. Learn techniques like scoring and slipping clay. Put the FUN in functional with a playful project that teaches the basics of ceramic hand building!</p>	<p>Blender is a free and open source 3D creation suite. It supports the entirety of the 3D pipeline — modeling, rigging, animation, simulation, rendering, compositing & motion tracking. Thanks to high quality rigging and animation tools, Blender is used for numerous short films, ads, TV series and feature films now.</p>	<p>Python is a powerful, expressive programming language that's easy to learn and fun to use. We build cool Graphics & Games during the course. We use IDLE as a development tool as well as common Libraries that help building like tkinter and pygame to explore the power of Python language!</p>	<p>Sustainable Science is development that meets the needs of the present without compromising the ability of future generations to meet their own needs. Ex. Generating Microbial fuel cell for electricity, make an emergency light powered by fire and water, making a water powered battery, a self watering plant and more.</p>	<p>Laser Cutting or Engraving, 3D Printing and CAD design, Milling and CNC are all manufacturing processes where the machine used is controlled by a computer. Campers will learn how to use these tools and design and create their own Hand-On projects. Campers choose ideas or create their own!</p>	<p>This Camp will teach you the basics of how to build an Android app using the Android Studio environment. Android Studio is an easy to use (and free) development environment to learn on. It's best if one has a working knowledge of the Java programming language for this tutorial because it is the language used by Android.</p>	<p>What if your clothing could change color based on mood or respond to your racing heartbeat? Welcome to the world of shoes that can dynamically shift your height, jackets that display when the next bus is coming, and neckties that can nudge your project partner across the room. Build your own Wearable!</p>
LUNCH (12-1p) + Outdoor Blast (Soccer, Frisbee, Volley Ball, Stretches & Physical Activities!)										
1-4p Afternoon Session	Anime & Cartooning	VEX ROBOTICS	Electronics w Soldering	Green Technology	Make a real Go Kart	VR/AR Workshop	Coding for the Web	Synthetic Biology	Wood Workshop	Java Fundamentals
	<p>What is the difference between the two Art styles? No matter how you look at it, an anime is a cartoon! The main difference is that an anime is considered a Japanese style of cartoon. Get deeper into this fun art class & learn from the basic to where you can take it using instructor led techniques for both forms!</p>	<p>Build a fully autonomous robot using the included programmable VEX ARM® Cortex® based Microcontroller & various sensor types. Students learn programming skills such as Robot-C, Robot Design and engineering process. Students can get ready and join teams to participate in VEX competitions organized widely across the nation</p>	<p>Learning how to solder is quite easy and, with a little practice, you will be soldering your own electronics circuits. You can create something new that never existed before. Campers in this class learn about electronics circuits to build LED flashers, a radio transmitter, a touch sensing lamp, a 555 IC tone generator.</p>	<p>Campers will get a great introduction to Green sustainable technologies by building a Simple Solar Charging Station for mobile phones or other devices, an amazing Solar powered Flashlight, a zero cost working Solar Water Pump, Solar powered bag packs and a Wind Turbine design! Campers will absolutely love this useful camp!</p>	<p>This is the real deal! Can you and your fellow campers design and create a real DIY Electric battery powered Car? Learn design and engineering skills, wood working, electronics, assembling and much more to make this custom designed vehicle that you can sit and steer, break, move forward and backwards!</p>	<p>Oculus is a hardware platform consisting of a headset & earphones that allows people to experience virtual reality. Learn how to use the Unity® engine and tackle the unique design challenges that arise when building for Virtual Reality. We then go and apply our skills to create two live Augmented Reality applications!</p>	<p>Learn Database (MySQL) and the full Web stack for creating useful data driven Web Sites. Learn HTML5, Javascript, CSS, MySQL with step by step easy to understand examples. You will create multiple end-to-end applications that will make you a confident Web Site developer for school or advanced home projects!</p>	<p>In this Camp, you will learn the fundamentals of synthetic biology in a hands-on way. CRISPR-Cas9 is a genome editing tool that is creating a buzz in the science world. It is faster, cheaper and more accurate than previous techniques of editing DNA and has a wide range of potential applications. You will do live Gene editing!</p>	<p>This totally safe working woodshop is a great way for kids to craft, create, build, and otherwise discover skills that can provide a lifelong source of enjoyment. Turn out real wood works in this Cool Workshop that's a combination of jigsaw, lathe, drill press, & sander. Make your own wooden bench, coat & hat rack, storage box!</p>	<p>A Jumpstart to Coding! Begin with a quick programming orientation using the Eclipse environment. Campers will learn to program using best practices and understand what makes JAVA unique and so powerful. JVM, Objects & Classes, Data Types, Arrays, Decision Structures, File I/O & Graphics are introduced!</p>



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SUMMER CAMP 2019

STEAM WORKS STUDIO
135 Village Blvd, PRINCETON, NJ



CLICK HERE TO REGISTER!

Grade 9-12

		June 24-28	July 8-12	July 15-19	July 22-26	July 29-Aug 2	Aug 5-9	Aug 12-16	Aug 19-Aug 23	Aug 26-Aug 30
9-12p Morning Session	No Camp									No Camp
	No Camp	Oculus Rift is a hardware platform consisting of a headset & earphones that allows people to experience virtual reality. Learn the how to use the Unity® game engine and tackle the unique design challenges that arise when building for Virtual Reality. You'll learn how the game engine controls everything from moving platforms to AI.	Make IOT Applications like switch on/off and blink an LED from a website which can be accessed worldwide, a home security camera on your mobile phone triggered by motion! Long duration Temp and Humidity monitor that connected to the internet. Learn to coding with Python while exploring electronics!	Learn Digital fabrication and Laser Cutting to design and create an Arduino controlled fully functional Drone. Time permitting you can add a FPV camera, LED lights for night flights and make it truly useful. You can choose to add other functions ex. GPS to make it geo-fenced. How can you do this?	What is the difference between the two Art styles? No matter how you look at it, an anime is a cartoon. The main difference is that an anime is considered a Japanese style of cartoon. Get deeper into this fun art class and learn from the basics to where you can take it using instructor led techniques for both forms!	Computer vision powers applications like image search, robot navigation, medical image analysis, photo management and many more. Camp is an entry point to hands-on computer vision with enough understanding of the underlying theory and algorithms to be a foundation for students. Python & OpenCV is used	Learning advanced Java by doing actual projects like making a Java Server and networking using a simple chat application, Java Sound API to capture audio data from a microphone, intro to Databases and JDBC access, Plotting 3D Surfaces using Java, Combining Rotation and Translation in Java 3D! Basic Java required.	In this Camp, you will learn the fundamentals of synthetic biology in a hands-on way. CRISPR-Cas9 is a genome editing tool that is creating a buzz in the science world. It is faster, cheaper and more accurate than previous techniques of editing DNA and has a wide range of potential applications. You will do live Gene editing!	No Camp	
LUNCH (12-1p) + Outdoor Blast (Soccer, Frisbee, Volley Ball, Stretches & Physical Activities!)										
1-4p Afternoon Session	No Camp									No Camp
	No Camp	Learn about machine learning by making end-to-end actual projects that cover steps from loading data, summarizing data, evaluating algorithms and making predictions. Learn about useful Python libraries like scipy, numpy, sklearn, matplotlib, pandas that are often used in ML. We will delve into linear regression & ensemble methods.	Learning advanced Java by doing actual projects like making a Java Server and networking using a simple chat application, Java Sound API to capture audio data from a microphone, intro to Databases and JDBC access, Plotting 3D Surfaces using Java, Combining Rotation and Translation in Java 3D! Basic Java required.	Computer vision powers applications like image search, robot navigation, medical image analysis, photo management and many more. Camp is an entry point to hands-on computer vision with enough understanding of the underlying theory and algorithms to be a foundation for students. Python & OpenCV is used	What is the technology behind the world of Cryptocurrency which is fast becoming a global phenomenon? Learn and actually make (code) live applications using Blockchain the very disruptive technology that is changing the landscape of many fields like finance, food quality and supply chain, identity management and more!	Can you make your own Kinetic Sculptures that move by themselves and create beautiful art for your walls? Design one from end to end using the tools and techniques that our teachers provide. Our tools and guidance together with your ideas will produce a marvelous piece of art that you can keep for yourself!	Learn about machine learning by making actual real life projects that cover basic steps like loading data, summarizing data, evaluating algorithms and making predictions. Learn about useful Python libraries like scipy, numpy, sklearn, matplotlib, pandas that are often used in ML. We will delve into linear regression & ensemble methods.	A fun and challenging Summer Camp for older students to make a completely Solar powered airplane that can fly by itself. What materials will you use? What kind of design will you choose? We have the tools and parts (ex. solar cells). High-schoolers, come and make an incredible project with us at Steam Works Studio!	No Camp	



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