SUMMER CAMP 2019 at High School, Stamford, CT, 06902

Questions? Call: (203) 343 0880 or Email: stamford@steamworksstudio.com

		KG - G	Grade 3 - Gr				
	<u>June 17th - 21st</u>	<u>June 24th - 28th</u>	<u>July 1st - 3rd</u>	<u>July 8th - Jul 12th</u>	<u>June 17th - 21st</u>	<u>June 24th - 28th</u>	
	The Jungle Book (Robotics)	Coding w Minecraft (Coding)	Arcade Games (Coding)	Space Explorers (Robotics)	EV3 Driverless Cars (Robotics)	Electronics Lab (Engineering)	
9AM-12PM							1. 335 for DUI 1. 335 for 3. 335
	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	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.	Kids learn to create their own games & fun stories & animations with SCRATCH using "drag and drop programing". 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 them to code!	A Robotics program with a SPACE theme! Think STAR WARS [™] and Lunar Landers & Mars Rovers! Have a blast using motors, gears, pulleys & motion sensors to create fun space themed builds! Campers will learn about simple machines like gears to create motion! Problem solving & logical thinking with block coding!	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?	Young makers can explore this exciting and popular field by learning the basics of electronic circuits and how electronic components work, which they can then apply to an idea of their own. They will be able to create their project using everyday materials. Students will use breadboards and will learn to build circuits that blink, squeak, tick, send signals & are	Pytho progra easy ti Pytho world graphi studer graphi l anima langua introd
		HOT LUNCH		HOT LUNCH	(\$6		
	Super Science (Science)	Silly Circuits (Engineering)	Animal Safari (Robotics)	Crazy Chemistry (Science)	3D Printing & CAD (Engineering)	Mars Mission (Robotics)	_ △
1PM-4PM							
	explore the amazing world of science! Chemistry experiments with food colors, baking soda and other safe ingredients. Have you made your own Oobleck yet? Paper airplanes, building sturdy bridges, balloon powered cars & many fun STEM activities.	doing fun crafts. Add LED lights, Motors, Sound to your paper circuits ex Greeting Cards, Light houses that glow, Paper lanterns with LED lights, Origami projects. Explore the fun world of electronics! Our cool silly circuits with Lights, Sound and movement are bound to nurture the campers interest in	Enhance students' curiosity and science and engineering skills with a wonderful introduction to ROBOTICS with LEGO Bricks, Tilt and Motion Sensors, Motors and gears, Block coding. Children will be buiding these fun Animal Robots with and then sensing and controlling them using block coding. Develop spatial thinking, motor skills, creative and logical problem solving!	house and at school. Experiment hands-on with real chemical reactions and test different liquids, salt, vinegar and learn about chemistry. Create your own chromatography applied T-	The CAD and 3D Printing camp introduces students to 2-D sketching and basic 3-D modeling. Primitive shapes, measurement, hollow objects, assemblies Students learn the tools needed to design exciting projects. The last day is for coming up with your own complete design. Students keep the 3-D printed printed models that they make! Save all your work and continue learning more!	In EV3 Mars Mission campers learn to build and program a Mars rover that conducts many different Mars related missions! 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!	You se all the even i camp & auto proces solving where foster experi and te props techni learnin

CAMP FEE: One Week Full day Summer Camp (\$549/Week), 8:00-9:00 AM Early Dropoff (\$75/Week), 4:00-6:00 PM Late Pickup (\$100/Week), HOT LUNCH (\$60/Week)

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irade 5

July 1st - 3rd

Python & ART (Coding)



July 8th - Jul 12th

Crazy Chemistry (Science)



hon is a powerful, expressive gramming language that's sy to learn and fun to use. hon Art brings kids into the rld of programming. Turtle phics and tKinter allow dents to enjoy making fun phics, music, game & guage basics. A fun roduction to coding!

house & at school. Experiment with real chemical reactions and test different liquids, salt, vinegar and learn about chemistry. Chromatography, mation while learning Python Bath bombs, electrolysis, make exothermic ice cream! Make OOBLEK & bouncy balls!

60/Week)

Stop Motion Animation (Art)



see stop motion animation he time on TV, movies en if you don't realize it. This np offers children ownership utonomy in the film making cess & encourages problem ving. Kids learn to plan out ere a story is heading and ters iteration &

perimentation through trying testing! A plot, storyline, ops and actors, 4 different nniques and hours of creative ning!

Home Robots (Robotics)



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!

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	<u>Jul 15th - 19th</u>	Jul 15th - 19thJul 22nd - 26thJul 29th - Aug 2ndAug 5th - Aug 9th		<u>Jul 15th - 19th</u>	<u>Jul 22nd - 26th</u>	Ju	
	The Jungle Book (Robotics)	Coding w Minecraft (Coding)	Arcade Games (Coding)	Space Explorers (Robotics)	EV3 Driverless Cars (Robotics)	Electronics Lab (Engineering)	
9AM-12PM							1. >>> Eu 2. >>> Eu 3. >>> Eu 4. >>> Can 4. >>> Can 6. >> Can 6. >>> Can 6. >> Can 6. >>> Can 6. >> C
	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	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.	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,	A Robotics program with a SPACE theme! Think STAR WARS [™] and Lunar Landers & Mars Rovers! Have a blast using motors, gears, pulleys & motion sensors to create fun space themed builds! Campers will learn about simple machines like gears to create motion! Problem solving & logical thinking with block coding!	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?	Young makers can explore this exciting and popular field by learning the basics of electronic circuits and how electronic components work, which they can then apply to an idea of their own. They will be able to create their project using everyday materials. Students wil use breadboards and will learn to build circuits that blink, squeak, tick, send signals & are	Pythor progra easy to Pythor world graphi studer graphi I anima langua introd
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	craft camp for kids to enjoy and explore the amazing world of science! Chemistry experiments with food colors, baking soda and other safe ingredients. Have you made your own Oobleck yet? Paper airplanes, building sturdy bridges, balloon powered cars & many fun STEM activities.	doing fun crafts. Add LED lights, Motors, Sound to your paper circuits ex Greeting Cards, Light houses that glow, Paper lanterns with LED lights, Origami projects. Explore the fun world of electronics! Our cool silly	ROBOTICS with LEGO Bricks, Tilt and Motion Sensors, Motors and gears, Block coding. Children will be buiding these fun Animal Robots with and then sensing and controlling them using block coding. Develop spatial thinking,	reactions and test different liquids, salt, vinegar and learn about chemistry. Create your own chromatography applied T-	The CAD and 3D Printing camp introduces students to 2-D sketching and basic 3-D modeling. Primitive shapes, measurement, hollow objects, assemblies Students learn the tools needed to design exciting projects. The last day is for coming up with your own complete design. Students keep the 3-D printed printed models that they make! Save all your work and continue learning more!	In EV3 Mars Mission campers learn to build and program a Mars rover that conducts many different Mars related missions! 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!	You se all the even if camp of & auto proces solving where fosters experi- and te props techni- learnir

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irade 5

Jul 29th - Aug 2nd

Python & ART (Coding)



Aug 5th - Aug 9th

Crazy Chemistry (Science)



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Practical Chemistry is lots of fun Learn about the chemistry that you encounter every day in your house & at school. Experiment with real chemical reactions and test different liquids, salt,

vinegar and learn about chemistry. Chromatography, mation while learning Python Bath bombs, electrolysis, make exothermic ice cream! Make OOBLEK & bouncy balls!

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	Grade 6 - Grade 8					Grade 6 - Grade 8				
	<u>June 17th - 21st</u>	<u>June 24th - 28th</u>	<u>July 1st - 3rd</u>	<u>July 8th - Jul 12th</u>	_	lul 15th - 19th	<u>Jul 22nd - 26th</u>	<u>Jul 29th - Aug 2nd</u>	<u>Aug 5th - Aug 9th</u>	
	Java Bootcamp (Coding)	3D Printing & Digital Fabrication	Coding with Python (Coding)	Arduino Smart Car (Engineering)	Ja	ava Bootcamp (Coding)	3D Printing & Digital Fabrication	Coding with Python (Coding)	Arduino Smart Car (Engineering)	
12PM	A Jumpstart to Coding! Begin	CAD and 3D Printing introduces	Python is a powerful, expressive	Learn the fundamentals of		Java CODING CODING CODING CODING CODING CODING	CAD and 3D Printing introduces	Python is a powerful, expressive	Learn the fundamentals of	
6	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	students to basic 3-D modeling. Primitive shapes, measurement, hollow objects & assemblies. Students learn the tools needed to design exciting projects. Students keep the 3-D printed printed models that they make! Save all your work and continue	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	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.	Jungle Mowgli Monke gears, p create mission about s gears to probler	book theme! Think ™ and his animal friends!	students to basic 3-D modeling. Primitive shapes, measurement, hollow objects & assemblies. Students learn the tools needed to design exciting projects. Students keep the 3-D printed printed models that they make! Save all your work and continue	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	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.	
	HOT LUNCH (\$60/Week)					HOT LUNCH (\$60/Week)				
	Electronics w Soldering	Coding for the Web (Coding)	Java Fundamentals (Coding)	Android Mobile Apps (Coding)	1	Electronics w Soldering	Coding for the Web (Coding)	Arduino Smart Car (Engineering)	Android Mobile Apps (Coding)	
4PM	Learning how to solder is quite			Android Studio This Camp will teach you the		g how to solder is quite	. , . ,	Learn the fundamentals of	Android Studio This Camp will teach you the	
1PM-4	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	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	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	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.	you wil electro create never e this cla circuits radio tr	I be soldering your own nics circuits. You can something new that existed before. Campers in ss learn about electronics to build LED flashers, a ransmitter, a touch glamp, a 555 IC tone	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	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.	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.	

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