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Ages 4-6 (PreK-KG)



	June 25-29	July 9-13	July 16-20	July 23-27	July 30-Aug 3	Aug 6-10	Aug 13-17	Aug 20-24	Aug 27-31
	Super Science	Little Doctors	Flying Machines	Super Science	Pirates Ahoy!	Animal Safari	Star Wars Epic!	Little Doctors	Flying Machines
Session									
ရွ	A practical hands-on	Little Doctors camp brings	Make paper planes and	A practical hands-on	Enhance students' curiosity	Each of our Camp weeks	Our Campers indulge	Little Doctors camp brings	Make paper planes and
nj.	science and craft camp for	medicine, science & the	rocket craft, colorful straw	science and craft camp for	and science and	incorporates activities with	themselves in the action	medicine, science & the	rocket craft, colorful straw
Mornin	kids to enjoy and explore the amazing world of	importance of health and	rockets, balloon powered	kids to enjoy and explore	engineering skills with a wonderful mixed STEM	simple Electronics (Battery, wires, LED lights) fun play	filled world of Star Wars and make their own Star	importance of health and	rockets, balloon powered rockets, bottle airplanes,
Š	science! Chemistry	hygiene in an entertaining & fun way! Role play using	rockets, bottle airplanes, parachutes! Lots of	the amazing world of science! Chemistry	introduction to ROBOTICS	dough and paper circuits,	Wars characters & fun	hygiene in an entertaining & fun way! Role play using	parachutes! Lots of
d	experiments with food	tools that doctors use in	educational activities for	experiments with food	with LEGO Bricks like an	creative art work, LEGO	crafts. Children will learn	tools that doctors use in	educational activities for
7	colors, baking soda and	real world, learn how the	our Campful of aeronautical	colors, baking soda and	escape boat fleeing a Pirate	Robotics, Chemistry	about LED lights & how	real world, learn how the	our Campful of aeronautical
9-1	other safe ingredients.	body works, bones in the	engineers! A little about	other safe ingredients.	Ship! Develops logical	experiments and much	they can be used in their	body works, bones in the	engineers! A little about
0,	Have you made your own	•	history of flight and fun	Have you made your own	problem solving skills and	more! Hours of educational	Light Saber project, make	body, how the heart works.	history of flight and fun
	Oobleck yet? Paper	This camp is surely going to		Oobleck yet? Paper	motor skills! Added	fun using an exotic Animal	glow in the dark Star Wars	This camp is surely going to	facts in the world of
	airplanes, building sturdy bridges, balloon powered	inspire our little doctors of tomorrow!	airplanes and rockets!	airplanes, building sturdy bridges, balloon powered	spectacular chemistry and Science hands-on	Theme! A funtastic class for exploring a variety of basic	themed slime! A movie & learning about space and	inspire our little doctors of tomorrow!	airplanes and rockets!
	cars & many fun STEM	tomorrow:		cars & many fun STEM	experiments and basic	STEAM activities!	solar system adds to the	tomorrow:	
	activities.			activities.	electronics!		Camp fun.		
	Super Science	Little Doctors	(12-1p) + Outdo	Super Science	Pirates Ahoy!	Animal Safari	Star Wars Epic!	Little Doctors	Flying Machines
Session		0	ELECTRIC PLAYDOH						
	A practical hands-on	Transforming a piece of	Each of our Camp weeks	Learn about Electronics	Whole week of fun art &	Learn elements of basic	Our Campers indulge	Transforming a piece of	Each of our Camp weeks
ternoon	science and craft camp for	paper into something else	incorporates elements of	while doing fun crafts! Add	crafts infused with science	Electronics (Battery, wires,	themselves in the action	paper into something else	incorporates elements of
שַ	kids to enjoy and explore the amazing world of	is an experience children can truly appreciate. Full of	Electronics (Battery, wires, LED lights) with fun play	LED lights, Motors, Sound to your paper circuits ex	(build a real telescope, kaleidoscope!) A fun group	LED lights) with fun play dough and paper circuits	filled world of Star Wars and make their own Star	is an experience children can truly appreciate. Full of	Electronics (Battery, wires, LED lights) with fun play
er	science! Chemistry	craft work and science	dough and paper circuits,	Greeting Cards, Paper	treasure hunt, paper plate	while enjoying creative art	Wars characters & fun	craft work and science	dough and paper circuits,
₩	experiments with food	activities that are a mixture	1 - : :	crafts, Origami projects.	pirates, gold coin hunt,		crafts. Children will learn	activities that are a mixture	- ' '
) ¢	_	of Robotics, hands on	Robotics, Chemistry	Explore the fun world of	• .	fun! Colorful butterflies,	about LED lights & how	of Robotics, hands on	Robotics, Chemistry
-4p	other safe ingredients.	electronics (play dough or	experiments and much	electronics!	hat that lights up when a	giraffe's and other Safari	they can be used in their	electronics (play dough or	experiments and much
1	Have you made your own Oobleck yet? Paper	paper circuits), this week all these activities revolve	more! Hours of educational fun! A funtastic class for	for little paws, learn about	button is pressed, a fun pirate ship that actually	animals. Build all you can imagine. A funtastic class	Light Saber project, make glow in the dark Star Wars	paper circuits), this week all these activities revolve	more! Hours of educational fun! A funtastic class for
	airplanes, building sturdy	around Doctors, Cells,	exploring a variety of basic	a battery, complete circuit	floats in "sea"! Pirate	for exploring a wide variety	themed slime! A movie &	around Doctors, Cells,	exploring a variety of basic
		Animals & human body!	STEAM activities!	& take home your project!	swords and other STEAM	of basic STEAM activities!	learning about space and	Animals & human body!	STEAM activities!
	cars & many fun STEM				activities!		solar system adds to the		
	activities.						Camp fun.		

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Grade 1-2

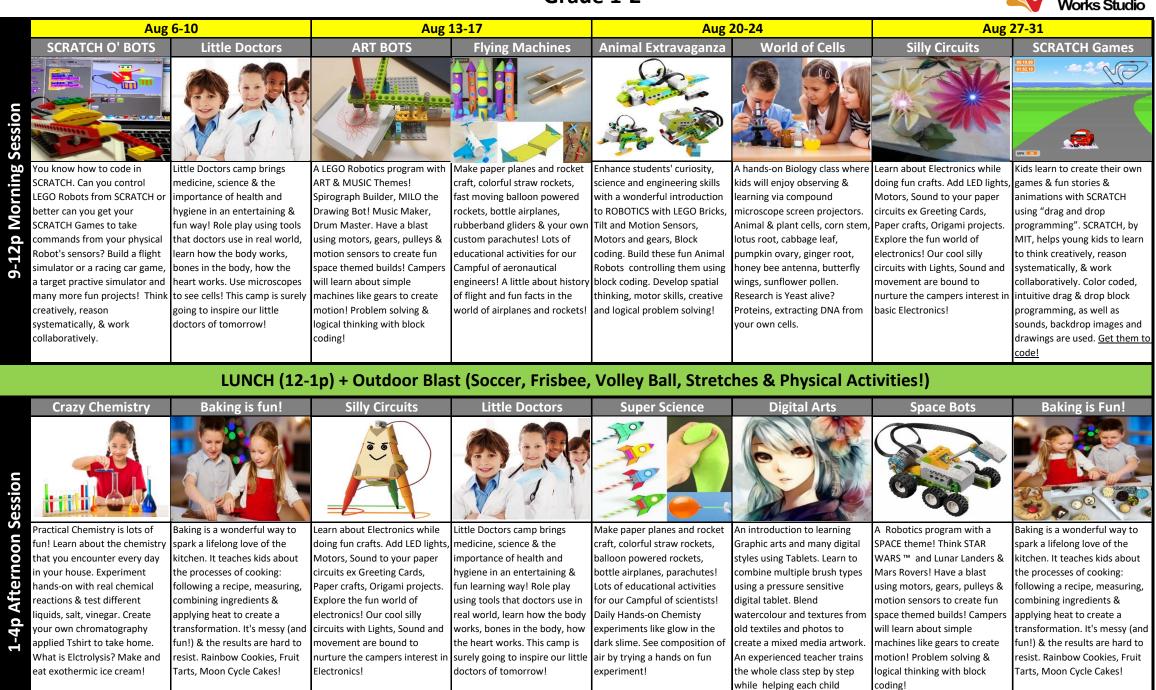


June 25-29	June 25-29 July 9-13		July :	16-20	July	23-27	July 30-Aug 3		
Milo the engineer	Space Bots	Arcade Games	Little Doctors	Super Science	Animal Zoo	Origami-tronics	Acrylic Painting	Art & Music	
Session									
Nurture curiosity, science & engineering skills with a wonderful introduction to ROBOTICS with LEGO Bricks, Tilt and Motion Sensors, Motors and gears. MILO pretends to be a super engineer lifting tables, dragging and cleaning up spaces. Block coding is super easy and fun while developing creative & logical problem solving skills!	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	drop programing". SCRATCH, by MIT, helps young kids to learn to think creatively, reason systematically, & work collaboratively. Color coded, drag & drop block programming, as well as	Little Doctors camp brings medicine, science & the importance of health and hygiene in an entertaining & fun way! Role play using tools that doctors use in real world, learn how the body works, bones in the body, how the heart works. Use microscopes to see cells! This camp is surely going to inspire our little doctors of tomorrow!		Enhance students' curiosity, science and engineering skills with a wonderful introduction to ROBOTICS with LEGO Bricks, Tilt and Motion Sensors, Motors and gears, Block coding. Build these fun Animal Robots controlling them using block coding. Develop spatial thinking, motor skills, creative and logical problem solving!	Transforming a piece of paper into something else is an experience children can truly appreciate. Watching a child's eyes light up when he completes an origami for kids model is priceless! We add simple coin batteries, colorful LED lights and buzzers to make them come alive!	Exploring acrylic painting techniques is a wonderful way to get used to the medium. Any time students play with an art material, they become more comfortable with it & they will approach future projects with confidence. We use small canvases so that artwork can be taken proudly home!	Kids learn to create their own games & fun stories & animations with SCRATCH using "drag and drop programing". 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!	
		(12-1p) + Outdo	or Blast (Soccer,	Frisbee, Volley I	Ball, Stretches &	Physical Activiti	es!)		
Water Colors	World of Cells	Baking is Fun!	Silly Circuits	Amazing Structures	Crazy Chemistry	Animation	Space Bots	Silly Circuits	
Session							2000		
People are drawn to watercolors due to their vibrant, delicate, and luminous qualities. Experiment with different color combinations & patterns! Masking, flower printing, water color with coffee filters, stamping, salting, splattering, & stenciling, water color on canvas. So many creative ways to enjoy water painting!	A hands-on Biology class where kids will enjoy observing & learning via compound microscope screen projectors. Animal & plant cells, corn stem, lotus root, cabbage leaf, pumpkin ovary, ginger root, honey bee antenna, butterfly wings, sunflower pollen. Research is Yeast alive? Proteins, extracting DNA from your own cells.	measuring, combining ingredients & applying heat to create a transformation.	Learn about Electronics while doing fun crafts. Add LED lights, Motors, Sound to your paper circuits ex Greeting Cards, Paper crafts, 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 Electronics!	This week is all about building sturdy Structures, Bridges & Construction Cranes. ROBOTICS with LEGO Bricks, Tilt and Motion Sensors, Motors and gears, Block coding. Drag & Drop block coding & engineering leads to developing spatial thinking, motor skills, creative and logical problem solving!	Practical Chemistry is lots of fun! Learn about the chemistry that you encounter every day in your house. Experiment hands-on with real chemical reactions & test different liquids, salt, vinegar. Create your own chromatography applied Tshirt to take home. What is Elctrolysis? Make and eat exothermic ice cream!	Kids learn to create their own games & fun stories & animations with SCRATCH using "drag and drop programing". 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!	to your paper circuits ex Greeting Cards, Paper	

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Grade 1-2





techniques.

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Grade 3-5



	June 25-29 July 9-13		July	16-20	July	23-27	July 30-Aug 3		
	EV3 Battle Bots	Stop Motion Anim	Baking is fun!	3D Printing & CAD	Electronics LAB	Car Physics	NASA™ Space Engineers	Python Art	Adv. 3D Printing
Session				TE STATE OF THE ST	South and the second se			Duthon 1 to the time layer 1 to the time time 1 to the time time 1 to the tim	
<u> </u>	•	You see stop motion	Baking is a wonderful way	CAD and 3D Printing	Young makers explore	Learn about motion,	Campers use the	Python is a powerful,	CAD and 3D Printing
Mornin	0 ,0	animation all the time on	to spark a lifelong love of	introduces students to	learning basics of electronic	•	Engineering design process	expressive programming	introduces students to
1	, , ,	TV, movies — even if you		basic 3-D modeling.	circuits and how electronic	· ,	& team work to create a	language that's easy to	basic 3-D modeling.
9	0 0	don't realize it. This camp	about the processes of	Primitive shapes,	components work, which	mousetrap car then race	satellite in this mission.	learn and fun to use.	Primitive shapes,
	• •		cooking: following a recipe,	measurement, hollow	they can then apply to an	the furthest? How would	These satellites will have to	,	measurement, hollow
2p		autonomy in the film	measuring, combining	objects & assemblies.	idea of their own. Students	you make it stop exactly at		the world of programming.	objects & assemblies.
÷		making process &	ingredients & applying heat		create their project using	10 meters? Design a		Turtle graphics and tKinter	Students learn the tools
6	•	encourages problem		needed to design exciting	everyday materials.	working Solar car & try	launch without loosing any		needed to design exciting
	= :	solving. Kids learn to plan		projects. Students keep the	Students will use	racing outside. Learn the	parts. Campers will be using		projects. Students keep the
		out where a story is	results are hard to resist.	3-D printed printed models	breadboards and will learn	art and he science behind	science & math. Fun &	game & animation while	3-D printed printed models
	· ·	heading and fosters		that they make! Save all your work and continue	to build circuits that blink,	air and CO2 powered dragsters. Fun hands on	challenging NASA designed activities that campers will		that they make! Save all your work and continue
	•	iteration & experimentation through	Tarts, Moon Cycle Cakes!	learning more!	squeak, tick and whirl.	way of learning & getting	love.	basics. A fun introduction to coding!	learning more!
	= =	trying and testing!		learning more:		interested in Physics!	love.	to coung:	rearring more:
		LUNCH	(12-1p) + Outdo	or Blast (Soccer,	Frisbee, Volley I	Ball, Stretches &	Physical Activiti	es!)	
	3D Printing & CAD	EV3 Mars Mission	Optics & Lasers	World of Cells	Moving Creatures	Python Art	Acrylic Painting	Stop Motion Anim	Making Rockets
ession			Virtual Reality Goggles			puthon 1. TO from killers layer 2. Did to This without the control of the contr			cockets
S	CAD and 3D Printing	Campers work on a special	This practical Physics	A hands-on Biology class	Campers use Mindstorms	Python is a powerful,	Exploring acrylic painting	You see stop motion	Campers engage in building
ernoon	introduces students to	Mars mat and Mars Rocket	program demystifies	where kids will enjoy	EV3 Robots to make	expressive programming	techniques is a wonderful	animation all the time on	paper, straw rockets, air
ě	basic 3-D modeling.	parts and Lego parts that	concepts in Optics (Light as	observing & learning via	moving Creatures like a	language that's easy to	way to get used to the	TV, movies — even if you	pressure powered rockets
5	Primitive shapes,	simulate craters and	waves, mirrors, lenses,	compound microscope	vicious scorpion that senses		medium. Any time students		and participate in a rocket
te te	•	uneven terrain and solve a	how do lasers work,	screen projectors. Animal &	l' '	Python Art brings kids into	play with an art material,	offers children ownership &	engine demo. The scientific,
Δf	=	set of Robotic challenges	communication with light	plant cells, corn stem, lotus	1 1177 00 1		they become more	autonomy in the film	technological, engineering
Q		very similar to Lego		root, cabbage leaf,	a caterpillar that slithers.	Turtle graphics and tKinter		making process &	& mathematical
-4p		competitions. Campers		pumpkin ovary, ginger root,		allow students to enjoy	will approach future	encourages problem	foundations of rocketry
1	projects. Students keep the		build projects like	honey bee antenna,	different ways of	making fun graphics, music,	· ·	solving. Kids learn to plan	provide exciting
		programming, testing and	Periscopes, Galilean	butterfly wings, sunflower	movement using	game & animation while	We use small canvases so	out where a story is	opportunities for authentic
	•	engineering design while	telescopes, Projectors,	pollen. Research is Yeast	·	learning Python language	that artwork can be taken	heading and fosters	hands-on, experimentation!
	<i>'</i>	working on Mars inspired		alive? Proteins, extracting		basics. A fun introduction	proudly home!	iteration &	
	learning more!	Robots in Space theme!	optical illusions and much more!	DNA from your own cells.	coding, engineering design!	to coding!		experimentation through trying and testing!	

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Grade 3-5



Δυσ	6-10	Λυσ	13-17	Λυσ	Aug 20-24 Aug 27-31			
Super Science	Art of Healthy Cooking	EV3 ART BOTS	Flight Science	Animal Extravaganza	Acrylic Painting	EV3 Mars Mission	Baking is Fun!	
Session	Art of ficulty cooking							
encountered every day in your	alongside campers learning techniques in measuring, baking, cleanliness & elements of healthy cooking. Pizza, Muffins Baking, Smoothies, Taco Cookies, Guacomole dips,	drawing robots, kinetoscopes	Design and build a variety of flying machines, then launch them! How high can you go? Think gliders, rubberband powered airplanes, kites, air pressure rockets, parachutes & you are on the way to embracing all the engineering fun to be had! Build a complete R/C airplane from scratch with step by step guidance from the teacher. Go launch & fly them outside!	Learn about robotic locomotion and balancing. Build mechanical versions of your favorite animals like a three legged spider robot or a slithering snake like motion. Understand the mechanics required to make efficient multi-pod movements while learning EV3 Mindstorms coding! Campers will heavily utilize different kinds of sensors as well as remote control!	Exploring acrylic painting techniques is a wonderful way to get used to the medium. Any time students play with an art material, they become more comfortable with it & they will approach future projects with confidence. We use small canvases so that artwork can be taken proudly home!	Campers use engineering design methods and work on a special Mars Competition mat and work with Mars Rocket parts LEGO parts that simulate craters and uneven terrain to solve a set of Robotic challenges very similar to Lego competitions. Campers learn sensor control, programming, testing and engineering design while working on Mars inspired Robots in Space theme!	Baking is a wonderful way to spark a lifelong love of the kitchen. It teaches kids about the processes of cooking: following a recipe, measuring, combining ingredients & applying heat to create a transformation. It's messy (and fun!) & the results are hard to resist. Rainbow Cookies, Fruit Tarts, Moon Cycle Cakes!	
SCRATCH O MATIC	LUNCH (12-	1p) + Outdoor Blas	st (Soccer, Frisbee,	Volley Ball, Streto	hes & Physical Act	ivities!) Electronics LAB	SCRATCH Games!	
	Space Engineers	9v NS47 NS47	JOHN MINISTER OF THE PROPERTY	Super science		9v 23 4	SCHATCH Gallies: CALLED CHEAT	
A creative coding exploration class with SCRATCH that allows students to explore how to control Motors, Electronics, react to Sensors from SCRATCH. Can a Tilt sensor allow you to make and play a	create a satellite in this mission. These satellites will have to survive a fall from 1 meter as well as a straw rocket launch without loosing any parts. Campers will be using science & math. Fun & challenging NASA designed activities that campers will	LEDs, batteries, motors. Students use bread boards & will learn to build circuits that	CAD and 3D Printing introduces 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 learning more!	fun! Learn about the chemistry encountered every day in your house & at school. Experiment hands-on with real chemical reactions, test different liquids, salt, vinegar & learn about chemistry. Chromatography on T-shirts, electrolysis, exothermic ice cream, volcanic eruptions, color changing	lotus root, cabbage leaf, pumpkin ovary, ginger root, honey bee antenna, butterfly wings, sunflower pollen.	Explore basics of electronic circuits & how electronic components work, which they can then apply to an idea of their own. Create projects using simple electronics like LEDs, batteries, motors. Students use bread boards & will learn to build circuits that blink, squeak, tick & whirl.	Kids learn to create their own games & fun stories & animations with SCRATCH using "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 them to code!	

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Grade 6-8



					Graue 6-8				Works Studio
	June 25-29	July 9-13	July 16-20	July 23-27	July 30-Aug 3	Aug 6-10	Aug 13-17	Aug 20-Aug 24	Aug 27-Aug 31
	Java Fundamentals	VEX Robotics	3D Print your DIY PC	Underwater Robotics	DIY Smart Robotic Car	Python Coding	Wood Working	Blender Animation	Sculpting
Session	Java	ACEDTICS DESIGN SYSTEM	20 C.			python		Blender	
þD	A Jumpstart to Coding!	Build a fully autonomous	A mixed DIY STEAM camp	Campers build a DIY	Students learn about the	Python is a powerful,	This totally safe working	Blender is a free and open	Clay is a great medium for
j.	Begin with a quick	robot using the included	which teaches students	Underwater Robot/ROV	ARDUINO UNO	expressive programming	woodshop is a great way	source 3D creation suite. It	students to get introduced
2	programming orientation	programmable	elements of computer	that can move vertically	microcontroller and its	language that's easy to	for kids to craft, create,	supports the entirety of the	to form & express
Mornin	using the Eclipse	VEX ARM® Cortex® based	organization, operating	and horizontally using	sensor, motor eco-system.	learn and fun to use. We	build, and otherwise	3D pipeline —modeling,	themselves in a fun way.
	environment. Campers will	Microcontroller & various	systems such as Linux, 3D	thrusters and can be	Understand and learn to	build cool Graphics &	discover skills that can	rigging, animation,	Understand the differences
α	learn to program using best	sensor types. Students	_	controlled using a	write code for line tracking,	Games during the course.	provide a lifelong source of	simulation, rendering,	between form and shape.
-12p	practices and understand what makes JAVA unique	learn programming skills such as Robot-C, Robot	packaging, Python coding, Camera integration and	microcontroller to take live stabilized videos & pictures	obstacle avoidance, IR- remote control and	We use IDLE as a development tool as well as	enjoyment. Turn out real	compositing & motion tracking. Thanks to high	Learn techniques like scoring and slipping clay.
6	and so powerful. JVM,	Design and engineering	how to control Electronics	for under water	Bluetooth control over	common Libraries that help		quality rigging and	Put the FUN in functional
	Objects & Classes, Data	process. Students can get	with a Input/Output board.	exploration. The ROV	their phone with apps on	with Graphics and Game	combination of jigsaw,	animation tools, Blender is	with a playful project that
	Types, Arrays, Decision	ready and join teams to	Students build their own	allows for streaming HD	iOS and android. Take your	building like tkinter and	lathe, drill press, & sander.	used for numerous short	teaches the basics of
	Structures, File I/O &	participate in VEX	mobile computers and take	video to a surface laptop to	final Robotic Car you built	pygame to explore the	Make your own wooden	films, ads, TV series and	ceramic hand building!
	Graphics are introduced!	competitions organized	it home!	enjoy the experience from	home!	power of Python language!	bench, coat & hat rack,	feature films now.	
		widely across the nation		dry ground.			storage box!		
			(12-1p) + Outdoo						30 D
	Electronics w Soldering	LUNCH DIY Smart Robotic Car	(12-1p) + Outdoo	or Blast (Soccer,	Frisbee, Volley I	Ball, Stretches & Wearable Electronics	Physical Activiti	es!) Underwater Robotics	3D Print your DIY PC
Session	Electronics w Soldering								3D Print your DIY PC
S	Learning how to solder is	DIY Smart Robotic Car Students learn about the	Advanced 3D Printing ADVANCED 3D PRINTING Campers will explore	Virtual Reality VIRTUAL REALITY Oculus Rift is a hardware	Building DIY Drones Learn principles of flight,	Wearable Electronics Discontinuous and the second	Laser Cutting, 3D print A hands-on STEAM Camp	Underwater Robotics Campers build a DIY	A mixed DIY STEAM camp
S	Learning how to solder is quite easy and, with a little	DIY Smart Robotic Car Students learn about the ARDUINO UNO	Advanced 3D Printing ADVANCED 3D PRINTING Campers will explore Coding/Program based	Virtual Reality VIRTUAL REALITY Oculus Rift is a hardware platform consisting of a	Building DIY Drones Learn principles of flight, what makes things go up	Wearable Electronics What if your clothing could change color based on	A hands-on STEAM Camp for older kids to explore	Underwater Robotics Campers build a DIY Underwater Robot/ROV	A mixed DIY STEAM camp which teaches students
S	Learning how to solder is quite easy and, with a little practice, you will be	DIY Smart Robotic Car Students learn about the ARDUINO UNO microcontroller and its	Advanced 3D Printing ADVANCED 3D PRINTING Campers will explore Coding/Program based methods of generating 3D	Oculus Rift is a hardware platform consisting of a headset & earphones that	Building DIY Drones Learn principles of flight, what makes things go up against the air & why,	Wearable Electronics What if your clothing could change color based on mood or respond to your	A hands-on STEAM Camp for older kids to explore Laser cutting and build a	Campers build a DIY Underwater Robot/ROV that can move vertically	A mixed DIY STEAM camp which teaches students elements of computer
ernoon Session	Learning how to solder is quite easy and, with a little practice, you will be soldering your own	Students learn about the ARDUINO UNO microcontroller and its sensor, motor eco-system.	Advanced 3D Printing ADVANCED 3D PRINTING Campers will explore Coding/Program based methods of generating 3D Printed projects. They will	Oculus Rift is a hardware platform consisting of a headset & earphones that allows people to experience	Learn principles of flight, what makes things go up against the air & why, basics of 3D Printing &	What if your clothing could change color based on mood or respond to your racing heartbeat? Welcome	A hands-on STEAM Camp for older kids to explore Laser cutting and build a variety of Art & Science	Campers build a DIY Underwater Robot/ROV that can move vertically and horizontally using	A mixed DIY STEAM camp which teaches students elements of computer organization, operating
ernoon S	Learning how to solder is quite easy and, with a little practice, you will be soldering your own electronics circuits. You can	Students learn about the ARDUINO UNO microcontroller and its sensor, motor eco-system. Understand and learn to	Advanced 3D Printing ADVANCED 3D PRINTING Campers will explore Coding/Program based methods of generating 3D Printed projects. They will also explore two different	Oculus Rift is a hardware platform consisting of a headset & earphones that allows people to experience virtual reality. Learn the	Learn principles of flight, what makes things go up against the air & why, basics of 3D Printing & CAD, soldering &	What if your clothing could change color based on mood or respond to your racing heartbeat? Welcome to the world of shoes that	A hands-on STEAM Camp for older kids to explore Laser cutting and build a variety of Art & Science projects: Ex. Eco Smart	Campers build a DIY Underwater Robot/ROV that can move vertically and horizontally using thrusters and can be	A mixed DIY STEAM camp which teaches students elements of computer organization, operating systems such as Linux, 3D
Afternoon S	Learning how to solder is quite easy and, with a little practice, you will be soldering your own electronics circuits. You can	Students learn about the ARDUINO UNO microcontroller and its sensor, motor eco-system. Understand and learn to	Advanced 3D Printing ADVANCED 3D PRINTING Campers will explore Coding/Program based methods of generating 3D Printed projects. They will also explore two different advanced 3D printed	Oculus Rift is a hardware platform consisting of a headset & earphones that allows people to experience	Learn principles of flight, what makes things go up against the air & why, basics of 3D Printing & CAD, soldering & electronics. Build a load	What if your clothing could change color based on mood or respond to your racing heartbeat? Welcome	A hands-on STEAM Camp for older kids to explore Laser cutting and build a variety of Art & Science	Campers build a DIY Underwater Robot/ROV that can move vertically and horizontally using thrusters and can be controlled using a	A mixed DIY STEAM camp which teaches students elements of computer organization, operating systems such as Linux, 3D Printing and CAD design for
Afternoon S	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	Students learn about the ARDUINO UNO microcontroller and its sensor, motor eco-system. Understand and learn to write code for line tracking,	Advanced 3D Printing ADVANCED 3D PRINTING Campers will explore Coding/Program based methods of generating 3D Printed projects. They will also explore two different advanced 3D printed	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®	Learn principles of flight, what makes things go up against the air & why, basics of 3D Printing & CAD, soldering & electronics. Build a load bearing fully functional	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	A hands-on STEAM Camp for older kids to explore Laser cutting and build a variety of Art & Science projects: Ex. Eco Smart Houses, Jigsaw puzzle map,	Campers build a DIY Underwater Robot/ROV that can move vertically and horizontally using thrusters and can be controlled using a	A mixed DIY STEAM camp which teaches students elements of computer organization, operating systems such as Linux, 3D
Afternoon S	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.	Students learn about the ARDUINO UNO microcontroller and its sensor, motor eco-system. Understand and learn to write code for line tracking, obstacle avoidance, IR-remote control and	Advanced 3D Printing ADVANCED 3D PRINTING Campers will explore Coding/Program based methods of generating 3D Printed projects. They will also explore two different advanced 3D printed projects that use electronic components. Ex. A water cooled mini pump that can	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	Learn principles of flight, what makes things go up against the air & why, basics of 3D Printing & CAD, soldering & electronics. Build a load bearing fully functional Quad Copter which can	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	A hands-on STEAM Camp for older kids to explore Laser cutting and build a variety of Art & Science projects: Ex. Eco Smart Houses, Jigsaw puzzle map, wooden ornaments or	Campers build a DIY Underwater Robot/ROV that can move vertically and horizontally using thrusters and can be controlled using a microcontroller to take live stabilized videos & pictures	A mixed DIY STEAM camp which teaches students elements of computer organization, operating systems such as Linux, 3D Printing and CAD design for packaging, Python coding, Camera integration and how to control Electronics
ernoon S	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	Students learn about the ARDUINO UNO microcontroller and its sensor, motor eco-system. Understand and learn to write code for line tracking, obstacle avoidance, IR-remote control and Bluetooth control over their phone with apps on	Advanced 3D Printing ADVANCED 3D PRINTING Campers will explore Coding/Program based methods of generating 3D Printed projects. They will also explore two different advanced 3D printed projects that use electronic components. Ex. A water cooled mini pump that can shoot high speed water and	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. Game	Learn principles of flight, what makes things go up against the air & why, basics of 3D Printing & CAD, soldering & electronics. Build a load bearing fully functional Quad Copter which can fly using remote control	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	A hands-on STEAM Camp for older kids to explore Laser cutting and build a variety of Art & Science projects: Ex. Eco Smart Houses, Jigsaw puzzle map, wooden ornaments or jewelry, roll-a-marble box and many more interesting engraving and laser cutting	Campers build a DIY Underwater Robot/ROV that can move vertically and horizontally using thrusters and can be controlled using a microcontroller to take live stabilized videos & pictures for under water exploration. The ROV	A mixed DIY STEAM camp which teaches students elements of computer organization, operating systems such as Linux, 3D Printing and CAD design for packaging, Python coding, Camera integration and how to control Electronics with a Input/Output board.
Afternoon S	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	Students learn about the ARDUINO UNO microcontroller and its sensor, motor eco-system. Understand and learn to write code for line tracking, obstacle avoidance, IR-remote control and Bluetooth control over their phone with apps on iOS and android. Take your	Advanced 3D Printing ADVANCED 3D PRINTING Campers will explore Coding/Program based methods of generating 3D Printed projects. They will also explore two different advanced 3D printed projects that use electronic components. Ex. A water cooled mini pump that can shoot high speed water and a Hand Crank electricity	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. Game engine controls that use	Learn principles of flight, what makes things go up against the air & why, basics of 3D Printing & CAD, soldering & electronics. Build a load bearing fully functional Quad Copter which can fly using remote control & as an add-on you can	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.	A hands-on STEAM Camp for older kids to explore Laser cutting and build a variety of Art & Science projects: Ex. Eco Smart Houses, Jigsaw puzzle map, wooden ornaments or jewelry, roll-a-marble box and many more interesting engraving and laser cutting projects. Strict teacher	Campers build a DIY Underwater Robot/ROV that can move vertically and horizontally using thrusters and can be controlled using a microcontroller to take live stabilized videos & pictures for under water exploration. The ROV allows for streaming HD	A mixed DIY STEAM camp which teaches students elements of computer organization, operating systems such as Linux, 3D Printing and CAD design for packaging, Python coding, Camera integration and how to control Electronics with a Input/Output board. Students build their own
Afternoon S	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 based tone	Students learn about the ARDUINO UNO microcontroller and its sensor, motor eco-system. Understand and learn to write code for line tracking, obstacle avoidance, IR-remote control and Bluetooth control over their phone with apps on iOS and android. Take your final Robotic Car you built	Advanced 3D Printing ADVANCED 3D PRINTING Campers will explore Coding/Program based methods of generating 3D Printed projects. They will also explore two different advanced 3D printed projects that use electronic components. Ex. A water cooled mini pump that can shoot high speed water and a Hand Crank electricity generator with a LED torch	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. Game engine controls that use moving platforms &	Learn principles of flight, what makes things go up against the air & why, basics of 3D Printing & CAD, soldering & electronics. Build a load bearing fully functional Quad Copter which can fly using remote control & as an add-on you can make your copter take	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	A hands-on STEAM Camp for older kids to explore Laser cutting and build a variety of Art & Science projects: Ex. Eco Smart Houses, Jigsaw puzzle map, wooden ornaments or jewelry, roll-a-marble box and many more interesting engraving and laser cutting projects. Strict teacher control and safety	Campers build a DIY Underwater Robot/ROV that can move vertically and horizontally using thrusters and can be controlled using a microcontroller to take live stabilized videos & pictures for under water exploration. The ROV allows for streaming HD video to a surface laptop to	A mixed DIY STEAM camp which teaches students elements of computer organization, operating systems such as Linux, 3D Printing and CAD design for packaging, Python coding, Camera integration and how to control Electronics with a Input/Output board. Students build their own mobile computers and take
Afternoon S	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	Students learn about the ARDUINO UNO microcontroller and its sensor, motor eco-system. Understand and learn to write code for line tracking, obstacle avoidance, IR-remote control and Bluetooth control over their phone with apps on iOS and android. Take your	Advanced 3D Printing ADVANCED 3D PRINTING Campers will explore Coding/Program based methods of generating 3D Printed projects. They will also explore two different advanced 3D printed projects that use electronic components. Ex. A water cooled mini pump that can shoot high speed water and a Hand Crank electricity	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. Game engine controls that use	Learn principles of flight, what makes things go up against the air & why, basics of 3D Printing & CAD, soldering & electronics. Build a load bearing fully functional Quad Copter which can fly using remote control & as an add-on you can	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.	A hands-on STEAM Camp for older kids to explore Laser cutting and build a variety of Art & Science projects: Ex. Eco Smart Houses, Jigsaw puzzle map, wooden ornaments or jewelry, roll-a-marble box and many more interesting engraving and laser cutting projects. Strict teacher	Campers build a DIY Underwater Robot/ROV that can move vertically and horizontally using thrusters and can be controlled using a microcontroller to take live stabilized videos & pictures for under water exploration. The ROV allows for streaming HD	A mixed DIY STEAM camp which teaches students elements of computer organization, operating systems such as Linux, 3D Printing and CAD design for packaging, Python coding, Camera integration and how to control Electronics with a Input/Output board. Students build their own

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Grade 9-12



	June 25-29	July 9-13	July 16-20	July 23-27	July 30-Aug 3	Aug 6-10	Aug 13-17	Aug 20-Aug 24	Aug 27-Aug 31
		VR/AR/MR Coding	Rpi IOT Applications	Stock Market Games!	Entrepreneurship 123	Computer Vision	Java Advanced	Blockchain & Crypto	
g Session	No Camp	VR More Virtual MR More Real AR Oculus Rift is a hardware		7 Thursday, February 8, 2013 1000 1000 121,033,280 1000 1000 121,271,29 1000 1000 1000 1000 121,271,29 1000 1000 1000 1000 1000 1000 1000 10	Many teens dream of	Computer Vision Computer vision powers	Java ADVANCED Learning advanced Java by	BLOCKCHAIN What is the technology	No Camp
9-12p Morning		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	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	a Bond? What does short selling mean? This Camp is meant for students who are interested in Financial	having their own business, but don't know where to	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	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.	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!	No Camp
		LUNCH	(12-1p) + Outdo	or Blast (Soccer,	Frisbee, Volley I	Ball, Stretches &	Physical Activiti	es!)	
		Advanced 3D Printing	Java Advanced	Computer Vision	Blockchain & Crypto	Stock Market Games!	Machine Learning	Advanced 3D Printing	
ession	No Camp	ADVANCED 3D PRINTING	Java Java ADVANCED	Computer Vision	BLOCKCHAIN	7	Speak forgition MACHE LANNIG Mac Out-abstraception Mac Out-abstraception Mac Out-abstraception Mac Macross Bodge Macross	ADVANCED 3D PRINTING	No Camp
1-4p Afternoon Session		also explore two different advanced 3D printed projects that use electronic components. Ex. A water cooled mini pump that can shoot high speed water and a Hand Crank electricity	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!	What are Options? What is a Bond? What does short selling mean? This Camp is meant for students who are interested in Financial lieracy, the Stock Market in general and the complex world of Finance. Stock Market Game will allow students to gain an appreciation using a simulated environment.	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.	Campers will explore Coding/Program based methods of generating 3D Printed projects. They will also explore two different advanced 3D printed projects that use electronic components. Ex. A water cooled mini pump that can shoot high speed water and a Hand Crank electricity generator with a LED torch light.	