















# GRADE KG-3

**Register Now**



976 Tabor Rd.  
Morris Plains, NJ, 07950

REGISTER ONLINE at  
[www.steamworksstudio.com/nnj](http://www.steamworksstudio.com/nnj)  
Call us at 1 844 GO4 STEM

MORNING (9-12 PM)		18-Jun 22-Jun	25-Jun 29-Jun	2-Jul 6-Jul	9-Jul 13-Jul	16-Jul 20-Jul	23-Jul 27-Jul
							
		ANIMAL ANTICS	SCRATCH GAMES-Coding	SHOOT FOR THE STARS	SCRATCH GAMES-Coding	SHOOT FOR THE STARS	SCRATCH GAMES-Coding
		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 building these fun Animal Robots with and then sensing and controlling them using block coding. Develop spatial thinking, motor skills, creative and logical problem solving!	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!	A LEGO Robotics program with a SPACE theme. Think STAR WARS™ and Lunar Landers and Mars Rovers! Campers will have a blast using motors, gears, pulleys and motion sensors to create fun space themed LEGO builds! Campers will learn about simple machines like gears to create motion! Develop problem solving and logical thinking with block coding!	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!	A LEGO Robotics program with a SPACE theme. Think STAR WARS™ and Lunar Landers and Mars Rovers! Campers will have a blast using motors, gears, pulleys and motion sensors to create fun space themed LEGO builds! Campers will learn about simple machines like gears to create motion! Develop problem solving and logical thinking with block coding!	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!
LUNCH TIME (12:00 - 1:00 PM)							
AFTERNOON (1-4 PM)							
		SILLY CIRCUITS	ANIMAL ANTICS	DIGITAL ARTS	CARS, TRUCKS & MORE	SILLY CIRCUITS	ANIMAL ANTICS
		A practical hands-on science and 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? Simple electronics with play dough and paper, paper airplanes, building sturdy bridges, balloon powered cars and many more fun STEM activities.	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 building these fun Animal Robots with and then sensing and controlling them using block coding. Develop spatial thinking, motor skills, creative and logical problem solving!	An introduction to learning Japanese form of Graphic arts and many more digital styles using Tablets. Learn to combine multiple brush types using a pressure sensitive digital tablet. Blend watercolour and textures from old textiles and photos to create a mixed media artwork. An experienced teacher trains the whole class step by step while helping each child techniques.	Get ready to build! Learn how to use motors, sensors, and simple machines like gears and pulleys to build vehicles, construction trucks, fork lifts, cranes and many more creative projects that move! Make a speedy Go-Cart or a winch crane or a fork lift which senses when a brick payload is put on it! Learn to build and program your robots. Develop problem solving and logical thinking with block coding!	A practical hands-on science and 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? Simple electronics with play dough and paper, paper airplanes, building sturdy bridges, balloon powered cars and many more fun STEM activities.	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 building these fun Animal Robots with and then sensing and controlling them using block coding. Develop spatial thinking, motor skills, creative and logical problem solving!




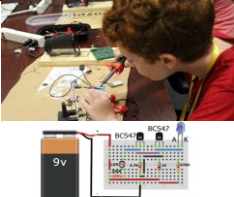



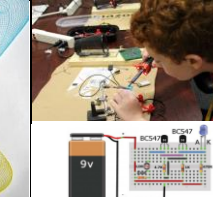
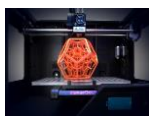
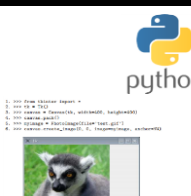
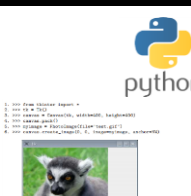
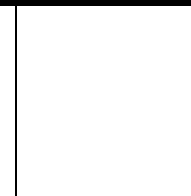
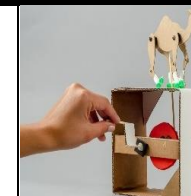
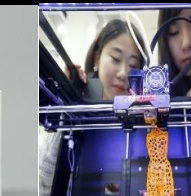
# GRADE 4-7

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	EV3 - MARS MISSION	ELECTRONICS LAB	EV3 - ART BOTS	PYTHON JR	EV3 - ART BOTS	ELECTRONICS LAB
	Learn about the challenges of creating and operating robots beyond our planet. Build Robots with Infrared, touch and color sensors and overcome terrain obstacles by applying engineering design and cool programming techniques! Applied robotics programs are great for engaging children in math, science, engineering, design, collaboration!	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 and whirl.	Learn about the color spectrum and human vision. Build spin art machines, drawing robots and kinetoscopes (moving pictures). Each day of the camp is a completely new fun Robot building and block coding challenge with art or music in mind. Learn about light, color, touch sensors and controlling your robots while building fun robots!	Python is a powerful, expressive programming language that's easy to learn and fun to use. Python for kids easily brings kids into the world of programming. Turtle graphics and Tkinter allow students to enjoy making fun graphics, create music and game and animation projects while learning Python language basics. A fun way for a young child to get introduced to coding!	Learn about the color spectrum and human vision. Build spin art machines, drawing robots and kinetoscopes (moving pictures). Each day of the camp is a completely new fun Robot building and block coding challenge with art or music in mind. Learn about light, color, touch sensors and controlling your robots while building fun robots!	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 and whirl.
AFTERNOON (1-4 PM)	LUNCH TIME (12:00 - 1:00 PM)					
						
	3D PRINTING & CAD	PYTHON JR	PYTHON JR	JAVA MINECRAFT	CARDBOARD AUTOMATA	3D PRINTING
	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!	Python is a powerful, expressive programming language that's easy to learn and fun to use. Python for kids easily brings kids into the world of programming. Turtle graphics and Tkinter allow students to enjoy making fun graphics, create music and game and animation projects while learning Python language basics. A fun way for a young child to get introduced to coding!	Python is a powerful, expressive programming language that's easy to learn and fun to use. Python for kids easily brings kids into the world of programming. Turtle graphics and Tkinter allow students to enjoy making fun graphics, create music and game and animation projects while learning Python language basics. A fun way for a young child to get introduced to coding!	A unique opportunity for young students to learn Java in an exciting & meaningful way. For every item, block or creature they want to add, kids first design the graphics, armor, skin and then add or modify JAVA code to quickly program their new features or change surroundings or character's behavior. Students can then take what programs they build home!	Cardboard Automata are a playful set of hands-on MAKING projects that allows young children to explore simple mechanical elements such as cams, levers, and linkages, create marble runs or explore creating a moving cardboard sculpture. Cardboard automata use levers, cams, pulleys, cam followers, linkages, and other mechanisms to make unique personalized creations.	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!