



MORNING (9-12 PM)

05.Jun - 09.Jun		12.Jun - 16.Jun		19.Jun - 23.Jun		26.Jun - 30.Jun	
SHOOT FOR THE STARS	ROBOTICS DOT & DASH	SCRATCH GAMES	EV3	ANIMAL ANTICS	SILLY CIRCUITS	SCRATCH ANIMATION	PAPER CIRCUITS
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! 1. Mars Rover Robot, 2. AT-T Walker Robot, 3. Space Shuttle and X-Wing Fighter	Coding is the career of the future! Naturally, it's best learned from robots. The ability to code will be expected of nearly everyone. Like any language, coding is best learned while young. Dash & Dot are real robots that teach kids to code while they play. Kids learn to code while they make Dash sing & dance all around the Camp. Sensors on the robot react to the environment around them, including the kids!	Kids learn to create their own games & fun stories & animations with SCRATCH using "drag and drop programming". SCRATCH, 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! 1. Fish tank/Aquarium, 2. Pong game, 3. Alien Shooting game and Maze solver and Gobo paint	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!	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! 1. Dancing Birds 2. A drumming monkey 3. Flapping Bird! 4. Roaring Lions! 5. A very hungry Alligator!	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! Squishy circuits are fun Play Dough based circuits with Lights, Sound and movement like a glowing LED light clay Frog or a mean looking Octopus that makes sounds!	SCRATCH, helps young kids to learn to think creatively, essential skills for life in the 21st century 1. Hungry Pac Man 2. Color Splash 3. Animation 4. Ghost Trouble 5. Pi Catch and The Flying Cat	Paper circuits are becoming more and more popular in the hobby electronics world. The easy availability of craft-like materials and increasing abundance of new products has created a really unique ecosystem for crafters looking to make the leap to electronics projects. Paper circuits are a great way of adding light to your drawings, origami, or paper craft creations. This lovely synthesis of art and technology is a great way to introduce artists to electronics, and engineers to art.

LUNCH TIME (12:00 - 1:00 PM)

Outdoor Blast! (Toss Ball, Frisbee, Hop-Scotch!) - Order a healthy hot delicious meal delivered to our location! Please call for information!

AFTERNOON (1-4 PM)

SQUISHY CIRCUITS	EV3 – Intro 1	SCRATCH ANIMATION	SQUISHY ANIMALS	CRAZY CHEMISTRY	SCIENCE PROJECTS FOR KIDS	CARS, TRUCKS & MORE	ROBOTICS DOT & DASH
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! Squishy circuits are fun Play Dough based circuits with Lights, Sound and movement like a glowing LED light clay Frog or a mean looking Octopus that makes sounds!	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!	SCRATCH, helps young kids to learn to think creatively, essential skills for life in the 21st century 1. Hungry Pac Man 2. Color Splash 3. Animation 4. Ghost Trouble 5. Pi Catch and The Flying Cat	Practical Chemistry is lots of fun! Learn about the chemistry that you encounter every day in your 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 Tshirt to take home. Make and eat exothermic ice cream! Have you heard about Ooblek?	Practical Chemistry is lots of fun! Learn about the chemistry that you encounter every day in your 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 Tshirt to take home. Make and eat exothermic ice cream! Have you heard about Ooblek?	Explore the awesome world of chemistry by making fake snot. Foam Cup Meltdown - Melt a foam cup witch in this foam cup meltdown. Learn how to make foam cup meltdown and other science projects for kids. Experiment hands-on with real chemical reactions and test different liquids, salt, vinegar and learn about chemistry. Create your own chromatography applied Tshirt to take home. What is Electrolysis? Make and eat exothermic ice cream! Have you heard about an Ooblek?	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!	Coding is the career of the future! Naturally, it's best learned from robots. The ability to code will be expected of nearly everyone. Like any language, coding is best learned while young. Dash & Dot are real robots that teach kids to code while they play. Kids learn to code while they make Dash sing & dance all around the Camp. Sensors on the robot react to the environment around them, including the kids!



MORNING (9-12 PM)

03.Jul - 07.Jul		10.Jul - 14.Jul		17.Jul - 21.Jul		24.Jul - 28.Jul	
STARS WARS ROBO	CRAZY CHEMISTRY Adv	SCRATCH GAMES-Coding	Amazing World of Cells!	ANIMAL ANTICS	SILLY CIRCUITS	SCRATCH GAMES-Coding	SILLY CIRCUITS
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! 1. Mars Rover Robot, 2. AT-T Walker Robot, 3. Space Shuttle and X-Wing Fighter	Practical Chemistry is lots of fun! Learn about the chemistry that you encounter every day in your 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 Tshirt to take home. Make and eat exothermic ice cream! Have you heard about Ooblek?	Kids learn to create their own games & fun stories & animations with SCRATCH using "drag and drop programming". SCRATCH, 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! 1. Fish tank/Aquarium, 2. Pong game, 3. Alien Shooting game and Maze solver and Gobo paint	A hands-on Biology class where kids will enjoy observing and learning via compound microscope screen projectors animal and plant cells celery leaf, corn stem, lotus root, cabbage leaf, pumpkin ovary, ginger root, honey bee antenna, butterfly wings, sunflower pollen. Research is Yeast alive? Test for proteins, cell structure & Osmosis, extracting DNA from your own cells.	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! 1. Dancing Birds 2. A drumming monkey 3. Flapping Bird! 4. Roaring Lions! 5. A very hungry Alligator!	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! Squishy circuits are fun Play Dough based circuits with Lights, Sound and movement like a glowing LED light clay Frog or a mean looking Octopus that makes sounds!	SCRATCH, helps young kids to learn to think creatively, essential skills for life in the 21st century 1. Hungry Pac Man 2. Color Splash 3. Animation 4. Ghost Trouble 5. Pi Catch and The Flying Cat	Paper and Plado circuits are becoming more and more popular in the hobby electronics world. The easy availability of craft-like materials and increasing abundance of new products has created a really unique ecosystem for crafters looking to make the leap to electronics projects. Paper circuits are a great way of adding light to your drawings, origami, or paper craft creations. This lovely synthesis of art and technology is a great way to introduce artists to electronics, and engineers to art.

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AFTERNOON (1-4 PM)

SQUISHY CIRCUITS	EV3 – Intro 2	SILLY CIRCUITS	SQUISHY CIRCUITS	STARS WARS ROBO	SCIENCE PROJECTS FOR KIDS	CARS, TRUCKS & MORE	ROBOTICS DOTS & DASH
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! Squishy circuits are fun Play Dough based circuits with Lights, Sound and movement like a glowing LED light clay Frog or a mean looking Octopus that makes sounds!	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!	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! Squishy circuits are fun Play Dough based circuits with Lights, Sound and movement like a glowing LED light clay Frog or a mean looking Octopus that makes sounds!	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! Squishy circuits are fun Play Dough based circuits with Lights, Sound and movement like a glowing LED light clay Frog or a mean looking Octopus that makes sounds.	AA 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! 1. Mars Rover Robot, 2. AT-T Walker Robot, 3. Space Shuttle and X-Wing Fighter	Explore the awesome world of chemistry by making fake snot. Foam Cup Meltdown - Melt a foam cup witch in this foam cup meltdown. Learn how to make foam cup meltdown and other science projects for kids. Experiment hands-on with real chemical reactions and test different liquids, salt, vinegar and learn about chemistry. Create your own chromatography applied Tshirt to take home. What is Electrolysis? Make and eat exothermic ice cream! Have you heard about an Ooblek?	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!	Coding is the career of the future! Naturally, it's best learned from robots. The ability to code will be expected of nearly everyone. Like any language, coding is best learned while young. Dash & Dot are real robots that teach kids to code while they play. Kids learn to code while they make Dash sing & dance all around the Camp. Sensors on the robot react to the environment around them, including the kids!



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AGE 8+

MORNING (9-12 PM)

05.Jun - 09.Jun		12.Jun - 16.Jun		19.Jun - 23.Jun		26.Jun - 30.Jun	
EV3 - MARS MISSION	JAVA MINECRAFT	ELECTRONICS LAB	PYTHON Jr	EV3 - ART BOTS	OPTICS & LASERS	CARDBOARD AUTOMATA	3D PRINTING & CAD
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! 1. Rover, 2. Maze Solver, 3. Wall Climber Robot, 4. Star Wars R2D2 and 5.Snake Robot	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!	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.	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. We build cool Graphics & Games during the course. We use IDLE as a development tool as well as common Libraries that help with Graphics and Game building like tkinter and pygame to explore the power of Python language!	Learn about the color spectrum and human vision. Build spin art machines, drawing robots and kinoscopes (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!	This practical Physics program demystifies concepts in Optics (Light as waves, mirrors, lenses, Snell's laws, how do lasers work, communication with light etc. with a hands-on learn by making approach. We build projects like Periscopes, Galilean telescopes, Projectors, Virtual Reality Goggles, Laser experiments, optical illusions and much more!	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!

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AFTERNOON (1-4 PM)

SIMPLE ELECTRONICS LAB	SCIENCE PROJECTS FOR KIDS	3D PRINTING & CAD	EV3 - MARS MISSION	JAVA MINECRAFT	3D PRINTING & CAD	SCIENCE PROJECTS FOR KIDS	3D PRINTING & CAD
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! Squishy circuits are fun Play Dough based circuits with Lights, Sound and movement like a glowing LED light clay Frog or a mean looking Octopus that makes sounds!	Explore the awesome world of chemistry by making fake snot. Foam Cup Meltdown - Melt a foam cup witch in this foam cup meltdown. Learn how to make foam cup meltdown and other science projects for kids. Experiment hands-on with real chemical reactions and test different liquids, salt, vinegar and learn about chemistry. Create your own chromatography applied Tshirt to take home. What is Electrolysis? Make and eat exothermic ice cream! Have you heard about an Ooblek?	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!	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! 1. Rover 2. Maze Solver 3. Wall Climber Robot 4. Star Wars R2D2 5. Snake Robot	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!	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!	Explore the awesome world of chemistry by making fake snot. Foam Cup Meltdown - Melt a foam cup witch in this foam cup meltdown. Learn how to make foam cup meltdown and other science projects for kids. Experiment hands-on with real chemical reactions and test different liquids, salt, vinegar and learn about chemistry. Create your own chromatography applied Tshirt to take home. What is Electrolysis? Make and eat exothermic ice cream! Have you heard about an Ooblek?	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!



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EV3 - MARS MISSION	JAVA MINECRAFT	SIMPLE ELECTRONICS LAB	PYTHON CODING	EV3 - ART BOTS	SCIENCE PROJECTS FOR KIDS	CARDBOARD AUTOMATA	3D PRINTING & CAD
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! 1. Rover, 2. Maze Solver, 3. Wall Climber Robot, 4. Star Wars R2D2 and 5.Snake Robot	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!	Students will be introduced to electronics by doing hands-on projects on breadboards. They will gain a basic understanding of electronic component and behaviors. Students get to explore types of different circuits while covering topics related to electricity and Electronics. Projects include: building electromagnets, electronic piano, electro-magnets, simple DC motor, resistors, capacitors, transistors circuits, touch sensors, 9 volt experiments, LED control, and simple integrated circuits ex. Water Alarm.	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. We build cool Graphics & Games during the course. We use IDLE as a development tool as well as common Libraries that help with Graphics and Game building like tkinter and pygame to explore the power of Python language!	Learn about the color spectrum and human vision. Build spin art machines, drawing robots and kinoscopes (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!	Explore the awesome world of chemistry by making fake snot. Foam Cup Meltdown - Melt a foam cup witch in this foam cup meltdown. Learn how to make foam cup meltdown and other science projects for kids. Experiment hands-on with real chemical reactions and test different liquids, salt, vinegar and learn about chemistry. Create your own chromatography applied Tshirt to take home. What is Electrolysis? Make and eat exothermic ice cream! Have you heard about an Ooblek?	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!

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AFTERNOON (1-4 PM)

SCIENCE PROJECTS FOR KIDS	OPTICS & LASERS	EV3 - ART BOTS	ROBOTICS MACHINE	PYTHON CODING	3D PRINTING & CAD	ELECTRONICS LAB	JAVA MINECRAFT
Explore the awesome world of chemistry by making fake snot. Foam Cup Meltdown - Melt a foam cup witch in this foam cup meltdown. Learn how to make foam cup meltdown and other science projects for kids. Experiment hands-on with real chemical reactions and test different liquids, salt, vinegar and learn about chemistry. Create your own chromatography applied Tshirt to take home. What is Electrolysis? Make and eat exothermic ice cream! Have you heard about an Ooblek?	This practical Physics program demystifies concepts in Optics (Light as waves, mirrors, lenses, Snell's laws, how do lasers work, communication with light etc. with a hands-on learn by making approach. We build projects like Periscopes, Galilean telescopes, Projectors, Virtual Reality Goggles, Laser experiments, optical illusions and much more!	Learn about the color spectrum and human vision. Build spin art machines, drawing robots and kinoscopes (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!	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!	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. We build cool Graphics & Games during the course. We use IDLE as a development tool as well as common Libraries that help with Graphics and Game building like tkinter and pygame to explore the power of Python language!	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!	Students will be introduced to electronics by doing hands-on projects on breadboards. They will gain a basic understanding of electronic component and behaviors. Students get to explore types of different circuits while covering topics related to electricity and Electronics. Projects include: building electromagnets, electronic piano, electro-magnets, simple DC motor, resistors, capacitors, transistors circuits, touch sensors, 9 volt experiments, LED control, and simple integrated circuits ex. Water Alarm.	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!