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WINTER CAMP 2016 SCHEDULE (Dec 26th-30th)

Morning

	Pre-K-KG	K-2 Grade	Grade 3-5	Grade 4+	Grade 5+	Grade 7+	Grade 7+
	Scratch Jr	NANO BOTS	FUN Projects with 3D Printing	Mindstorms EV3	Minecraft Modding	Introduction to Arduino	Introduction to iPhone App Dev
9-12 pm							
	<p>Coding is the new literacy! With Scratch Jr, young children (ages 5-7) can program their own interactive stories and games. In the process, they learn to solve problems, design projects, and express themselves creatively on the computer.</p>	<p>NANO BOTS makes elementary science come to life through hands-on tasks, real-world projects, and relevant technology that engages students. The unique combination of the LEGO brick, classroom-friendly software, and inspiring, standards-based science projects results in a resource that builds students' confidence.</p>	<p>Our experienced CAD and 3D printing instructor will guide the kids step by step on how to use Google SketchUp to create simple and fun CAD projects and show how easy it is for one to express their own imagination into plastic reality! Make houses, building, toy planes and much more!</p>	<p>EV3 makes building, programming and commanding your own LEGO robots smarter, faster, and more fun than ever. Make a Snow Throwing Machine, A Mars curiosity rover, Spirograph machine and many more cool hands on projects that challenge you to build and program!</p>	<p>Become a better minecrafter & gain valuable Java programming experience when you learn how to create personalized Minecraft game mods. Work directly with Minecraft's Java-based source code to create new types of blocks, ores, custom armor, and items, biomes within the game. Take the unique mod(s) you created with you for later fun!</p>	<p>Arduino is an open-source prototyping platform based on easy-to-use and cheap, hardware and software. Learn how to write code and upload it to your board in minutes. Learn to make interesting and useful home automation, sensing based projects.</p>	<p>In this step-by-step introductory course learn to use Xcode, Objective-C and Swift programming language to build your own simple games ex. Tic-Tac-Toe, Maze and other useful applications. PLEASE NOTE: This course requires students to bring in an apple laptop.</p>

LUNCH 12:00-1:00 PM - Parents provide Peanut free lunch or use <http://www.smartlunches.com/>

Afternoon

	Pre-K-KG	K-2 Grade	Grade 3-5	Grade 4+	Grade 5+	Grade 7+	Grade 7+
	"SUPER" SCIENCE & CRAFTS	SCRATCH Animation	Simple Circuits!	Acrylic Painting	Python	VEX Robotics	JAVA Fundamentals
1-4 pm							
	<p>A practical science and craft camp for kids to enjoy and explore the amazing world of science! Chemistry experiments with food colors, baking soda and safe ingredients. Simple electronics with play dough, paper airplanes, building bridges and many more fun STEM activities.</p>	<p>Scratch helps young people learn to think creatively, reason systematically, and work collaboratively — essential skills for life in the 21st century. When kids learn to code in Scratch, they learn important strategies for solving problems, designing projects, and communicating ideas.</p>	<p>Simple circuits is a fun hands-on electronics program to introduce elementary age children to the fun world of electronic circuits, switches, LEDs, motors, buzzers while using Paper as a primary way to give structure to what they are building.</p>	<p>This style of Acrylic Painting is traditionally done with fingers, twigs, brushes, nib-pens, and matchsticks, using natural dyes and pigments, and is characterized by eye-catching geometrical patterns. Kids will learn both to draw and paint these attractive works of art using brush strokes!</p>	<p>Python is a powerful, expressive programming language that's easy to learn and fun to use! Draw shapes and patterns with Python's turtle module. Learn fundamentals such as Lists, Maps, Functions, Loops and conditions. Create games, animations, with tkinter!</p>	<p>Learn to code in C language to control these mechanical robots with sensors, stepper motors, gears using the VEX Robotics platform! Solve mazes, make a ball throwing machine and many more fun hands-on classes each of which is full of math, engineering and physics concepts!</p>	<p>Learn basics of the JAVA programming language in this 5 day camp and get ahead of the curve during your Winter break! Learn what are classes and Object oriented programming, Arrays, Java Graphics library and make interesting hands-on projects like ball animation!</p>

*10% Sibling Discount

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