
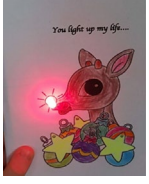
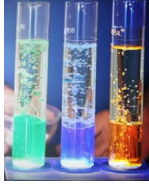








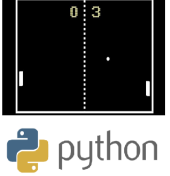

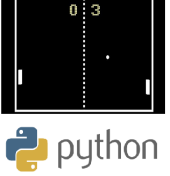


Online Winter Camp Brochure









Grades 1-2

December 21 st	December 22 nd	December 23 rd	December 28 th	December 29 th	December 30 th
Paint with Gobo (Scratch)	LED Light-Up Card (SILLY CIRCUITS)	Make Hand Sanitize/ Lava Lamp (Crazy Chemistry)	Paint with Gobo (Scratch)	LED Light-Up Card (SILLY CIRCUITS)	Make Hand Sanitizer + Lava Lamp (Crazy Chemistry)
					
Kids learn to create their own games & fun stories & animations with SCRATCH using "drag and drop programming". Think creatively, reason systematically, & work collaboratively. Color coded, intuitive drag & drop block programming, as well as sounds, backdrop images and drawings are used. In this workshop children will paint with Gobo using scratch!	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! Make a special LED Light-Up card with Silly Circuits!	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. In this workshop, children will make hand sanitizers and lava lamps while observing, making and learning about science!	Kids learn to create their own games & fun stories & animations with SCRATCH using "drag and drop programming". Think creatively, reason systematically, & work collaboratively. Color coded, intuitive drag & drop block programming, as well as sounds, backdrop images and drawings are used. In this workshop children will paint with Gobo using scratch!	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! Make a special LED Light-Up card with Silly Circuits!	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. In this workshop, children will make hand sanitizers and lava lamps while observing, making and learning about science!

Grades 3-5

Make an Electronic Siren (DIY Electronics)	Complete Pong Game (Python & ART)	Make a Periscope (Optics) + Optical Illusions	Complete Pong Game (Python & ART)	Make an Electronic Siren (DIY Electronics)	Make a Periscope (Optics) + Optical Illusions
					
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. At the end of the project, kids will be able to create their own electronic siren!	Python is a powerful, expressive programming language that's easy to learn and fun to use. Python Art brings kids into the world of programming. We build cool Graphics & Games. 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! In this course, children will learn to create and complete a Pong game using Python!	This practical physics program demystifies concepts in optics such as light as waves, mirrors, lenses, and lasers with a hands-on, learn-by-making approach. Students will learn to make a Periscope and learn about optical illusions!	Python is a powerful, expressive programming language that's easy to learn and fun to use. Python Art brings kids into the world of programming. We build cool Graphics & Games. 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! In this course, children will learn to create and complete a Pong game using Python!	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. At the end of the project, kids will be able to create their own electronic siren!	This practical physics program demystifies concepts in optics such as light as waves, mirrors, lenses, and lasers with a hands-on, learn-by-making approach. Students will learn to make a Periscope and learn about optical illusions!

Grades 6-9

Chat Server/Client with Java Networking	Create your Own Website (HTML/Javascript)	Facial Recognition with Python	Chat Server/Client with Java Networking	Make a Chess Piece - 3D Printing & CAD	Design and Print a 3D Printed Car
					
Learning advanced Java by 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.	Learn HTML5, Javascript coding, CSS, with step by step easy to understand examples. Make your own website & deploy it. Create a website with your own creative messaging with something that you strongly feel about or add videos & pictures & learn how to make typical Website widgets.	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, such as, facial recognition with Python.	Learning advanced Java by 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.	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 models that they make! Save all your work and continue learning more! In this project, children will create Chess pieces, using SketchUp and print their chess piece with a 3D printer!	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 models that they make! Save all your work and continue learning more! In this project, children will create a 3D printed car using SketchUp to create their car and print after with a 3D printer!