

Summer Enrichment Camp Courses

2021

Middle School

No Experience Needed Coding

Looking for all students who are interested in computer programming or playing with Robots but have little to no experience. Learn how to program the Sphero Robot and challenge yourself to guide the Sphero through 5 challenging courses/obstacles.

Puzzled

Work puzzles and play games independently and in teams- no experience needed. Get puzzled by visual, numeric and word puzzles from around the world. Puzzles include Sudoku, Nonograms, Numbrix, Cryptograms, digital “escape” puzzles, and more. We will also explore pile games, seed games like Mancala, and dice games.

Breakout the Puzzles

Love puzzles? Here is your chance to complete and create Breakout Box puzzles, mini-escape rooms that will challenge you to collaborate and think “outside of the box” in order to unlock the box. Participants will create physical and digital lock-box puzzles that they can play even after camp ends.

An Exploration of Photography

This class will explore a variety of photographic techniques ranging from alternative process photography, to the current use of digital techniques, and also basic photo editing. Students will have an opportunity to develop photographic works in multiple mediums as well as gain an understanding for the photographic process.

Positively Medieval: The Return

Back by popular demand is the original Positively Medieval class which allows students to make paper from rags, dye wool with natural dyes, and live through a siege by making catapults and crossbows! As an added attraction, students will also be grinding pigments to make paints and learning about medieval rope making.

I'm With the Band

“A course for absolute beginners who want to rock, roll or hip hop.” Ms. Barham
**If you play a traditional band/orchestra instrument but have never played guitar, bass, drums or keyboards in a contemporary setting, you may take this course. You are encouraged to bring any traditional band/orchestra instrument to camp.*

Ever want to play in a modern band? Students will learn the basics of guitar, bass, keyboards, bass and vocals in this fun and creative setting. Genres include rock, pop, hip hop, rhythm and blues, etc. If you already play a traditional band or orchestra instrument, bring it! Today's artists are incorporating a wide variety of instruments. With the aid of technology, we can do in a few days what once took weeks or months to accomplish. Class activities include learning contemporary songs, writing songs, recording and performing. Have fun forming groups, naming them, and creating music!

Materials provided by MSMS: Instruments, iPad©, song charts

*Students should bring any wind or string instrument they currently play. You will not be made to play it; however, it would be great to have on hand if you choose to play it.

Found Sounds

Counting, patterns, rhythms, fractions, volume, mass and numbers are common to science, mathematics and music. In this course, students will find connections between these subjects through fun and interactive activities. They will participate in dynamic projects that illustrate how math, science and music are linked. Using science and math, students will build instruments from junk, recyclable and found objects. Students will learn and perform songs on their instrument creations. Instruments include a pvc pipe bass guitar, pvc pipe tubulums, xylophones and percussion.

Materials used and provided: iPad©, tools, safety gear, found objects

Engineering and Teamwork

Discover the engineering process and foster your team work skills through hands-on activities. Students will work with new partners each day to create cargo containers, a mountainous road, a payload mover, and bore through Mount MSMS.

Junkyard Wars

Use simple, (mostly) recycled or reused materials to meet design challenges from simple rockets to Rube Goldberg machines. You will work in teams to solve each challenge.

Magic in Chemistry in Harry Potter's World

In this course, students will enter the world magic (via the Hogwarts School) to uncover chemical concepts and principles while exploring and understanding the “magic” of science. Students will participate in inquiry-based activities for hands-on discovery of basic principles of chemistry and the relevance of these principles to daily life in the world of Muggles.

Mystery of Forensic Science

Have you ever wondered how evidence is collected to help bring criminals to justice? Does learning about different techniques and skills used by forensic scientists and crime scene investigators sound interesting to you? Join us as we perform ink chromatography, gel electrophoresis and forensic entomology to solve a few cases of our own!

Robotics

Robotics is the fusion of Computer Science and Engineering, and in our camp, we will give students the opportunity to experience both. The Robotics course will teach students the basics of computer programming logic while letting them build their own interactive fields and games.