

WORKSHOP DESCRIPTIONS **AGE GROUPS**

MATH FITNESS FUN **10-12**

Get ready to build your brain and muscles! Math Fitness Fun requires brain power and teamwork. Learn, play and have fun with this workshop that takes you beyond the math book and into the gym.

MATH MAYHEM **6-9**

Keep your math skills sharp during the summer and have fun at the same time with awesome math games and activities.

MEDIEVAL TIMES **10-12**

Hail, fellow campers! In this workshop you will learn about kings, queens, and knights. Word in the kingdom is that everyone who attends this workshop gets knighted!

MESSY ART **10-12**

We will use all kinds of messy materials to create wonderful works of art.

MIXED MEDIA MADNESS **6-9 / 10-12**

Paint, glue, magazines, markers, and much more . . . you name it, we'll create with it! Use whatever you can get your hands on to create a new masterpiece every day!

NINJA WARRIOR **6-9**

Attention ninja warriors in training! Teamwork and fun are the two requirements for this workshop. Each day, teams will be presented with new courses in the gym, and will work together to conquer every obstacle.

NOT SO ORDINARY SPORTS **6-9 / 10-12**

Ever play gaga ball, net ball, or cricket? In this workshop you'll be able to play sports you have never heard of before.

NUTS FOR NATURE **6-9**

Ah, the great outdoors. Channel your creativity through nature, and let's see what we can learn and create together.

OUTDOOR GAMES **6-9 / 10-12**

Let's play every day! Get some fresh air and have fun out in the sun with all your favorite classic games like four square, capture the flag, parachute games, relay races, kickball, and many more!

PUZZLING PUZZLE **6-9**

If you like mind challenges, this is the place to be. You will even learn how to create your own puzzle!

PYTHON CODING **10-12**

Computer enthusiasts, this one is for you. Python is general purpose programming software that employs actual lines of code. You will learn how to use variables, lists, strings, and functions to develop an animation or game, create a graphic, or write a function that can solve a problem or answer a question.

ROBOTICS **6-9**

This robotics program will inspire young people to develop an early interest in engineering and technology.

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THE GREAT DESERT ISLAND STEM CHALLENGE **10-12**

Come join in the fun with the Great Desert Island STEM Challenge. Not too long ago, a group of adventurous travelers set sail for a week on the open seas. Unfortunately, on the second night, a great storm came upon them while they slept in the cabin below deck. The violent storm tossed the passengers from one side of the ship to the other. The captain tried to take control but was knocked overboard by a massive wave! Eventually, the ship came to a crashing halt when a storm threw it onto the rocky shore of a deserted island. Sadly, only one traveler survived--Sir Harley Houndstooth III. It is now your job to help him survive the island and get back to the civilized world. Are you up to the challenge?

THE GREAT PIONEER STEM CHALLENGE **10-12**

Come join in the fun with the Great Pioneer STEM Challenge. The year is 1889. In early March, when the snow had begun to melt, the Marshall family set out on a journey. Twelve-year-old Samuel, along with his mother, father, and 9-year-old sister Rachel, climbed into a covered wagon and headed west along with several other families. Their destination was Indian Territory where land was plentiful and free for the taking. Their plan was to stake a claim, start a new life, and build a new town far from the crowded cities of the east coast. The wagon was packed with everything they owned, but were they prepared for what's to come? Now six weeks later, they arrive in the dry, dusty territory. It is your job to help them make it in this new land.

SCRAPBOOKING **10-12**

Scrapbooking is a creative way to display the most memorable moments in your life. In this workshop you will put together a page a day and go home with a final scrapbook at the end of the week.

SPACE CAMP **6-9**

3 . . . 2 . . . 1 . . . blastoff to the moon and explore the galaxy every day. You will learn new and exciting facts about outer space by creating projects, experiments, and much more!

SPORTS SPECTACULAR **6-9 / 10-12**

If you like sports, you will LOVE this workshop! Spend the day playing all your favorite sports like basketball, floor hockey, football, soccer, and more. You'll also learn the core values of good sportsmanship.

SUMMER EXPERIMENTS **10-12**

A lot of outdoor/ indoor experiments are happening this summer! Take part in challenges with STEM, building marble mazes, constructing water slides, and other awesome experiments!

SUPER-DUPER HEROES **6-9**

Not only will you celebrate your favorite super hero, you will also focus on what makes someone a hero. Art is a big part of this workshop as well as creativity and exploring the hidden heroes within us. Come dressed as your favorite superheroes and let the fun begin! Games, art, and activities are included in each day's fun.

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SUPER SCIENCE **6-9**

Explore science methods and experiments that make you feel like a real-life scientist in your laboratory this summer.

SUPER TEAM BUILDING **10-12**

There's no "I" in team. Learn the importance of team building by working together every day with different types of activities to help open our minds and strengthen our bodies.

3D VIDEO GAME MAKER **6-9 / 10-12**

Get introduced to the basics of game development while learning to use Kodu game making software. This software uses a visual programming language designed to be accessible to children and made specifically for creating games. Kodu's various capabilities enable students to develop and program a wide range of inventive and visually interesting games that are played in a 3-D world. Students draw on these capabilities to design and create their own single-player and multi-player games.

WATER WORKS **6-9**

Get ready for water works! In this workshop you will participate in water projects and water sports.

WE ARE THE WORLD **6-9 / 10-12**

Travel around the world in 5 days while exploring each country's history and culture, all without waiting on any pesky airport lines. Sample new foods and create exciting projects during your journey.

YOUNG ENTREPRENEURSHIP **10-12**

Do you love making crafts? Have an idea for a product or service? Then start your own business! Learn how to create something and package it, put together a marketing strategy, and basic money management skills.



IGNITE YOUR TALENT

SUMMER SPARKS YMCA OF MONTCLAIR

Summer Sparks Camp is an engaging enrichment program that will ignite your child's imagination. Program examples are:

- Science
 - Art
 - Technology
 - Physical Activity
- And much more!

Campers have the option to pick morning, afternoon or both for a full day (Two Sessions). These enrichment activities will expand campers minds. All activities will take place on-site.

AGES
Entering 1st-6th grade

DATES
6/25-8/17; no camp July 4
(8) one-week sessions

HOURS
Morning session: 8:30am-12:30pm
(if your camper is attending for the full day, lunch time will be from 12:30pm-1:15pm)
Afternoon session: 1:15pm-5:15pm

FEE
\$160 per morning session/
\$160 per afternoon session
(\$128 per morning/\$128 per afternoon for Session 2)

LOCATION
Memorial Middle School
500 Ridge Road, Cedar Grove

BEFORE CARE
7:30am-8:30am, \$25 per week;
\$20 per week – Session 2

AFTER CARE
5:15pm-6:30pm, \$25 per week;
\$20 per week – Session 2

CAMP CONTACT
Angelo Petullo
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973-415-6140

SUMMER SPARKS 2018 SCHEDULE*

SESSION 1
JUN 25-29

MORNING WORKSHOP FOR AGES 6-9			MORNING WORKSHOP FOR AGES 10-12			AFTERNOON WORKSHOP FOR AGES 6-9			AFTERNOON WORKSHOP FOR AGES 10-12		
8:30am-12:30pm			8:30am-12:30pm			1:15pm-5:15pm			1:15pm-5:15pm		
Junior Theater #101	Ciao Italia #102	Intro to STEM using LEGOS #103	App Development #104	Let's Paint #105	Outdoor Games #106	Jewelry Making #107	App Development #108	Outdoor Games #109	Sports Spectacular #110	Character Comic Creation #111	Intro to STEM using LEGOS #112

SESSION 2
JUL 2-6
(no camp Jul 4)

MORNING WORKSHOP FOR AGES 6-9			MORNING WORKSHOP FOR AGES 10-12			AFTERNOON WORKSHOP FOR AGES 6-9			AFTERNOON WORKSHOP FOR AGES 10-12		
8:30am-12:30pm			8:30am-12:30pm			1:15pm-5:15pm			1:15pm-5:15pm		
Sports Spectacular #201	Mixed Media Madness #202	Music Making #203	Super Team Building #204	The Great Desert Island STEM Challenge #205	Ciao Italia #206	Manga Mania Comic Art #207	Math Mayhem #208	Nuts for Nature #209	Outdoor Games #210	DIY Projects #211	Hip-Hop Dance and More! #212

SESSION 3
JUL 9-13

MORNING WORKSHOP FOR AGES 6-9			MORNING WORKSHOP FOR AGES 10-12			AFTERNOON WORKSHOP FOR AGES 6-9			AFTERNOON WORKSHOP FOR AGES 10-12		
8:30am-12:30pm			8:30am-12:30pm			1:15pm-5:15pm			1:15pm-5:15pm		
We Are the World #301	Junior Theater #302	Space Camp #303	Goopy Gross and Green #304	Python Coding #305	The Great Pioneer STEM Challenge #306	Ninja Warrior #307	Art #308	Clay Works #309	Math Fitness Fun #310	Create Your Own Comic Book #311	Creative Writing #312

SESSION 4
JUL 16-20

MORNING WORKSHOP FOR AGES 6-9			MORNING WORKSHOP FOR AGES 10-12			AFTERNOON WORKSHOP FOR AGES 6-9			AFTERNOON WORKSHOP FOR AGES 10-12		
8:30am-12:30pm			8:30am-12:30pm			1:15pm-5:15pm			1:15pm-5:15pm		
Fitness Fun #401	Let's Paint #402	Super Science #403	Scrap-booking #404	Business Leaders of Tomorrow #405	We Are the World #406	Jedi Engineering #407	Hip-Hop Dance and More! #408	Puzzling Puzzle #409	Not So Ordinary Sports #410	Medieval Times #411	Python Coding #412

SESSION 5
JUL 23-27

MORNING WORKSHOP FOR AGES 6-9			MORNING WORKSHOP FOR AGES 10-12			AFTERNOON WORKSHOP FOR AGES 6-9			AFTERNOON WORKSHOP FOR AGES 10-12		
8:30am-12:30pm			8:30am-12:30pm			1:15pm-5:15pm			1:15pm-5:15pm		
Goopy Gross and Green #501	Healthy U #502	Art #503	Summer Experiments #504	Mixed Media Madness #505	Outdoor Games #506	Edible Arts #507	Super Duper Heroes #508	Karate Kidz #509	Super Team Building #510	Messy Art #511	Everything Star Wars #512

SESSION 6
JUL 30-AUG 3

MORNING WORKSHOP FOR AGES 6-9			MORNING WORKSHOP FOR AGES 10-12			AFTERNOON WORKSHOP FOR AGES 6-9			AFTERNOON WORKSHOP FOR AGES 10-12		
8:30am-12:30pm			8:30am-12:30pm			1:15pm-5:15pm			1:15pm-5:15pm		
Ninja Warrior #601	Junior Theater #602	Space Camp #603	Games & Challenges #604	Character Comic Creation #605	Clay Works #606	Fairytale Fanatic #607	Math Mayhem #608	Intro to Photography #609	Athletic Conditioning #610	Baseball Fundamentals #611	Creative Writing #612

SESSION 7
AUG 6-10

MORNING WORKSHOP FOR AGES 6-9			MORNING WORKSHOP FOR AGES 10-12			AFTERNOON WORKSHOP FOR AGES 6-9			AFTERNOON WORKSHOP FOR AGES 10-12		
8:30am-12:30pm			8:30am-12:30pm			1:15pm-5:15pm			1:15pm-5:15pm		
Fashion Design #701	3D Video Game Maker #702	Not So Ordinary Sports #703	Everything Star Wars #704	Business Leaders of Tomorrow #705	Create Your Own Comic Book #706	Camp Crafts #707	Just Dance #708	DIY Projects #709	Sports Spectacular #710	3D Video Game Maker #711	Games & Challenges #712

SESSION 8
AUG 13-17

MORNING WORKSHOP FOR AGES 6-9			MORNING WORKSHOP FOR AGES 10-12			AFTERNOON WORKSHOP FOR AGES 6-9			AFTERNOON WORKSHOP FOR AGES 10-12		
8:30am-12:30pm			8:30am-12:30pm			1:15pm-5:15pm			1:15pm-5:15pm		
Everything Star Wars #801	Karate Kidz #802	Water Works #803	Summer Experiments #804	Canvas Cut Outs #805	Athletic Conditioning #806	Not So Ordinary Sports #807	All the Presidents Men #808	Robotics #809	Young Entrepreneurship #810	Flag Football League #811	Intro to Photography #812

*Workshop schedule is subject to change

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ALL THE PRESIDENTS MEN 6-9

Our founding fathers have so much to offer us. Learn about past presidents and what made them unique.

APP DEVELOPMENT 6-9 / 10-12

Learn to create your own Android app using MIT's App Inventor. You will use drag and drop coding to program the app on the computer and then use it on an Android phone. Laptops and Android smart phones will be provided for each student.

ART 6-9

If you love painting, drawing, crafts, and collage, this is the workshop for you. We'll do it all!

ATHLETIC CONDITIONING 10-12

Are you ready for fall sports? With this workshop you will work on speed and strength, so when practice is in full swing after a long summer off, you won't miss a beat.

BASEBALL FUNDAMENTALS 10-12

Take me out to the ball game! Campers will be coached on baseball fundamentals including swinging, catching, throwing, and sliding.

BUSINESS LEADERS OF TOMORROW 10-12

In this workshop campers will learn how to budget, plan, and execute their very own business. Each camper will work with a team to develop their own business plan that will be executed during the last two days of camp. This is a great step to becoming an entrepreneur.

CAMP CRAFTS 6-9

Explore your creative side by letting your imagination soar. Create original crafts that allow your inner artist to come out. Enjoy workshopic crafts like sand art and tie-dye.

CANVAS CUT OUTS 10-12

Create a masterpiece with a cut out for your face and make new memories along the way!

CHARACTER COMIC CREATION 10-12

Create and design your own comic book characters. Learn how to put together a narrative and bring your character and story to life.

CIAO ITALIA 6-9 / 10-12

Ciao tutti! Learn all about Italian culture, impress your friends with some new words and phrases, and put on your chef's hat for some delicious Italian cooking.

CLAY WORKS 6-9 / 10-12

This workshop will have you using your hands (no machines) and clay all day! The clay is fast drying, so you can take home your creations.

CREATE YOUR OWN COMIC BOOK 10-12

Learn to develop a story/narrative and create your own comic book characters and story arcs! By the week's end, you will have your own comic book and the tools to continue your love of drawing comics!

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CREATIVE WRITING 10-12

Where can your imagination take you? Explore your creative side and find that the possibilities are endless. Campers will learn to brainstorm and write short stories from the depths of their imaginations.

DIY PROJECTS 6-9 / 10-12

You will create projects out of everyday objects. Transform leftover tissue boxes into pencil holders, a ball of yarn into a wearable scarf . . . the possibilities are endless!

EDIBLE ARTS 6-9

Create a masterpiece then eat it up! In Edible Arts you will explore your creativity and culinary skills to create a fun project you can snack on!

EVERYTHING STAR WARS 6-9 / 10-12

Are you Jedi or a Sith? Will you stand by Luke Skywalker, Princess Leia, and Rey, or will you join the dark side with Darth Vader, Kylo Ren, and the Empire?! Choose your side as you explore a galaxy far, far away in this workshop. We'll find out if the force is with you this summer.

FAIRYTALE FANATIC 6-9

In this workshop you will participate in art, crafts, and STEM challenges with a fairytale twist.

FASHION DESIGN 6-9

Bring your fashion ideas to life by designing your own clothing. Every young designer deserves their day on the runway. We'll celebrate the end of the workshop with a fashion show for friends and family.

FITNESS FUN 6-9

Get fit and have fun! In this workshop you will participate in engaging activities that teach general fitness in a fun environment.

FLAG FOOTBALL LEAGUE 10-12

No need to worry about getting tackled in this league! You will learn game rules as well as general fitness and training.

GAMES & CHALLENGES 10-12

Challenge your body and mind! Students will participate in activities, brain teasers, and team building.

GOOEY GROSS AND GREEN 6-9 / 10-12

Join us in celebrating all things icky. Participate in fun experiments, art activities and much more. And of course, there will be slime. Oh yes, there will be slime.

HEALTHY U 6-9

You are what you eat! In this workshop you will learn the basics of nutrition including my plate, healthy snacking, and the importance of drinking water. You'll also learn fun active games. The program will follow kid approved CATCH curriculum.

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HIP-HOP DANCE AND MORE! 6-9 / 10-12

Jump up jump up and get down! Hip-Hop Dance and More will get you moving and grooving. You will learn cool choreography while listening to awesome music.

INTRO TO PHOTOGRAPHY 6-9 / 10-12

Hey shutterbugs, learn how to capture different photos with proper technique. You will also learn about lighting, texture, landscapes and much more!

INTRO TO STEM USING LEGOS 6-9 / 10-12

This is the place to be if you love LEGOs! Build engineer-designed projects such as cities, garbage trucks, catamarans, and dinosaurs. Design and build as never before and explore your craziest ideas in a supportive environment. There are no prerequisites for this workshop.

JEDI ENGINEERING 6-9

The Force Awakens in this advanced engineering course for young Jedi! Discover key engineering concepts such as gear trains, worm drives, pneumatics, and eccentric motion. Build projects using LEGO materials such as X-Wings, AT-AT walkers, Pod Racers, Star Destroyers, Cloud Cities, Settlements, Fortresses, and other complex machines and structures from a galaxy far, far away.

JEWELRY MAKING 6-9

Fashion your own bling in this hands-on jewelry-making workshop. Design and create your own line of jewelry and beaded accessories from start to finish, including necklaces, bracelets, earrings and others.

JUNIOR THEATER 6-9

Attention budding thespians: Bring famous stories to life by acting out scenes, creating props, and making costumes in this introduction to theater.

JUST DANCE 6-9

Based on the game Just Dance, learn dance routines to perform on Friday after mastering two routines from the week.

KARATE KIDZ 6-9

Find your inner Daniel-san and learn the basics of karate to keep you healthy, fit and focused.

LET'S PAINT 6-9 / 10-12

Ever wonder how Michelangelo, Picasso, and Dali created their masterpieces? All your questions will be answered! You will learn painting techniques like how to apply paint to canvas, as well as mixing colors to create tone and texture.

MAKING MUSIC 6-9

Join us on a musical adventure from all around the world! We'll jam on various instruments that we create from all sorts of materials.

MANGA MANIA COMIC ART 6-9

If you love Pokémon, Adventure Time, and Spider-Man, this is the workshop for you. Learn how to create American and Japanese style comic book characters with Manga Mania Comic Art.