Challenge Camp 2019
A Summer of Fun and Learning, too!

ChallengeCamps.com

ACCREDITED
What can your children do this summer at Challenge Camp?

They can experiment and print 3D model prototypes
They can unlock clues to solve escape room challenges
They can learn advanced gaming strategies for Fortnite
They can become DJ mix masters
They can train to be a Ninja Warrior
They can design their own Pinball machine
They can explore reality in their own VR world
They can develop codebreaking and espionage skills.
They can star in “Annie” and “The Legend of Mulan”
They can code with HTML, Java and Python
They can chop, slice and dice their way to healthy cooking
They can see their DoodleMatic avatar come to life
They can enlist in the Drone Flight School
They can learn to buy low and sell high
They can design and create scale model architecture
They can experiment with chromatography and crystallization
They can dazzle their friends with mystifying magical illusions
They can master Photoshop techniques
They can launch their own model rockets
They can build and drive a remote control Grand Prix car
They can create wearable technology
They can produce, direct and act in their own short film
They can build their own computer
They can form a complex Rube Goldberg machine to complete a simple task
They can develop a business plan to raise money for children’s charities

All of these exciting activities and much more will be occurring at Challenge Camp 2019, our 39th spectacular summer!

Located at Schechter Westchester
Open House Dates - February 10 & March 24, 2019 from 2-4PM
Transportation Available – Early Dropoff & Extended Day Options – Lunch Included
Challenge Camp – A Summer of Fun and Learning, too!
challengecamps.com - Phone (914) 779-6024
info@challengecamps.com
Dear Friends:

I am delighted to continue our association with Schechter Westchester in Hartsdale, providing a magnificent setting for the 39th summer of Challenge Camp! Summer presents an opportunity for exploration into topics about which your child may be curious. Our courses have been specially designed to meet the creative and intellectual needs of gifted and talented children, enabling them to go deeper into a current interest, try something new, or revisit themes from the past.

The Program
Challenge Camp is a unique program for bright, curious children. The Challenge Camp advantage is that you and your child customize a program of selections based on your child's interests and the students follow their course selections for an entire session. As many of our courses are project based, you will see your child's knowledge and interest grow throughout the session.

Our Facility
Challenge Camp is located at Schechter Westchester, a picturesque campus with art rooms, a theater, science and computer labs, and state of the art classrooms. There is large gymnasmium and playing fields for sports. The facility is fully air conditioned!

Morning Curriculum
In addition to our returning favorites in the STEM and Arts disciplines, we are introducing many new morning workshops designed to stimulate the imagination of our campers. These selections include: 3D Printing Unleashed, DoodleMatic, Edison Robotics, Escape Room, Fortnite the Next Level, MOMA, Platform 9 3/4, Spy Kids, VR Explorers, Woody’s Workshop, and our theater productions "Annie" and "The Legend of Mulan".

Afternoon Challenge
The Afternoon Challenge features our outstanding sports program including the continuation of our popular Swimming, Fencing, Tae Kwon Do, Hip Hop and Ninja Warrior programs. Exciting new Afternoon Challenge options include: 3D Puzzles & Mazes, Brickfilms, DJ Jam, Graphic Design, Iron Chef, Spa Science, Ugly Little Monsters, Ukulele Makers and more.

Our Team
The charismatic and talented Joe Fields will return as Challenge Camp Afternoon Director. Marcy Geisser-Wolf coordinates all camp activities including instructing the Counselor in Training Program. Marc Berman and Michelle Segal will facilitate the administration of camp operations to make this a memorable summer for your child.

Our Services
Challenge camp has teamed with CampDoc to manage our Online Portal for registration and filing of health documents. For your convenience, Challenge Camp offers a door to door transportation option. We also have early morning arrival or extended day programs to offer additional flexibility to families.

Please call me at (914) 779-6024 or email info@challengecamps.com to learn more about early registration, sibling discounts and open house information. We are happy to answer any questions and look forward to providing a meaningful and fun summer experience for your child.

Best Regards,

Carole Berman
Executive Director
Challengecamps.com

Cover photos courtesy of Liz Steger-Hartzman
Challenge Camp 2019
Program Information

Session 1: Thursday, June 27 to Friday, July 26 (four weeks)
Session 2: Monday, July 29 to Friday, August 16 (three weeks)

Challenge Camp Morning Workshops consist of two sessions. The first session is 4 weeks. The second session is 3 weeks. Students may attend both sessions. We have programs for grades K-9 and Pre-K. Each session is held Monday through Friday from 9:00 a.m. to 12:00 p.m.

for the full day campers...

Lunch
Afternoon activities begin with lunch, which is offered at noon for full day campers only. A professional caterer will provide a wide and varied menu with a number of options including salads and fresh fruit. Outside food is not permitted without written approval from Five Star Catering.

followed by...

Afternoon Challenge:

Session 1: Thursday, June 27 to Friday, July 26 (four weeks)
Session 2: Monday, July 29 to Friday, August 16 (three weeks)

The Afternoon Challenge Camp also consists of two sessions. The program begins each day at 1:00 p.m. with students reporting to a designated location and camp counselor for class. The Afternoon Challenge Camp program provides sports and exciting enrichment activities for children in grades K-9.

Policies and Procedures
- You must complete your camper’s health profile and required forms on our Online Portal, http://app.campdoc.com/register/challengecamp, prior to the start of camp.
- Students must select their workshops based on their current grade level. Early registration is recommended to ensure student’s first choice of workshops. The Director reserves the right to cancel any workshop if the enrollment is insufficient. In the event of cancellation, the child will be permitted to transfer to another course or receive a refund. All course descriptions and instructors are subject to change without notification. No material fees will be returned for class changes after June 1.
- All programs are closed on Thursday and Friday, July 4th and 5th. An Open House Celebration is held on the final day of each session. Parents are invited and encouraged to attend.
- Complimentary camp T-shirts will be distributed on Picture Day each session.
- Guests to the program for one day will be permitted at the discretion of the directors and subject to space availability. Cost: morning $100, afternoon $100, full day (lunch included) $200.
- The camp is not responsible for personal property of the campers. There will be no reimbursement for missing possessions.
- For new participants it is necessary that a letter from the school district in which the child is currently enrolled accompany or follow the registration form. The letter should indicate that the child has been identified as gifted, talented and/or an accelerated learner.
Fee Schedule

Morning Workshops
9:00 a.m. - 12:00 noon

Session 1: Thursday, June 27 to Friday, July 26 (four weeks) $1,750
Session 2: Monday, July 29 to Friday, August 16 (three weeks) $1,400

Afternoon Challenge
1:00 - 4:00 p.m.

Session 1: Thursday, June 27 to Friday, July 26 (four weeks) $1,750
Session 2: Monday, July 29 to Friday, August 16 (three weeks) $1,400

A minimum deposit of $1,000 tuition plus materials fees is required upon registration for Challenge Camp 2019. Balance is due on or before May 1, 2019. There will be no refunds for voluntary withdrawal of a child after May 1, 2019, any refund will be subject to an administrative charge of $200 per child. There is no refund for any money paid after May 1. All withdrawals must be in writing. No material fees will be refunded after June 1st for class changes.

<table>
<thead>
<tr>
<th>Session 1</th>
<th>Morning Workshops</th>
<th>Afternoon Challenge</th>
<th>Full Day</th>
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<tbody>
<tr>
<td>4 Weeks: June-July</td>
<td>$1,750</td>
<td>$1,750</td>
<td>$3,200</td>
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<tr>
<td>Session 2</td>
<td>$1,400</td>
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<td>3 Weeks: July-August</td>
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<td>Both Sessions</td>
<td>$3,150</td>
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Full payment is due by May 1, 2019. Please note that certain courses may be subject to material fees. See details in the relevant course description in this brochure.

Optional Early Morning beginning 8:00 a.m. - Session 1: $100, Session 2: $75; Total: $175
Optional Extended Day (includes a healthy snack) - 4:00-6:00 p.m.
Session 1: $275, Session 2: $225; Total: $500

Early Registration Discount
7 week full day session $5,400 3 week full day session $2,350
4 week full day session $3,050

To receive Early Registration Discount, Payment in full via check must be made by February 28, 2019.

Sibling Discount
There is a $200 tuition discount for each additional child enrolled for a full day 7 week summer; $100 reduction for the full day 4 week session and a $75 discount for the full day 3 week session.

Location
Schechter Westchester
555 West Hartsdale Avenue
Hartsdale, NY 10530
914-721-7307
**Pre Kindergarten**

**DISCOVER, IMAGINE AND CREATE**

**MORNING:** 9:00 - 12:00 Sessions 1 and 2  
**LUNCH/RECESS:** 12:00 – 1:00 Sessions 1 and 2  
**AFTERNOON:** 1:00 - 4:00 Sessions 1 and 2

Discover, Imagine and Create is an original summer program designed to meet the needs of intellectually and creatively gifted youngsters who will be entering kindergarten in the fall. This course will encourage the development of pre-school creative thinking skills through stimulating experiences with language, reading, math and science concepts as well as drawing, painting and imaginative play. History, animals, creative expression and the world of science and mathematics will come alive through our thematic approach.

**Our exciting weekly themes include:**

**AMERICA THE BEAUTIFUL**  
Learn the history of our country, founding fathers, presidents and traditions.

**SOLAR SYSTEM**  
Explore planets, stars, orbits, the sun and moon!

**OUR EARTH**  
Love our planet: planting, recycling, preserving water and energy.

**WEATHER SCIENCE**  
Understand climate, seasons, temperature, wind, water cycles and more!

**FIVE SENSES**  
Discover facts about a new sense each day and applying it to all subjects!

**CONSTRUCTION**  
Create structures using different materials, tools, Legos and machines.

**ARCTIC ANIMALS**  
Bring a chill to summer: study polar bears, foxes, puffins, seals and more.

**AFTERNOON ACTIVITIES**

Field Sports Jr – Butterflies in Flight - It’s a Small World  
Art on the Move – Spanish Fiesta
1. **New – Woody’s Workshop**  
   Instructor: Michael Donovan  
   **Session 1**  
   Grades K-1  
   9:00  
   2-3  
   10:30  
   Woody and Buzz know how much we love our toys. In this hands-on Toy Story workshop we will construct and play with a variety of toys including cars, rubber band-propelled rockets, dinosaurs, a marble roller coaster and catapults. The science and design lessons surrounding our projects will effect how students create their own toys for display in the “Challenge Toy Fair.”

2. **New – Booms, Bangs & Fizzes**  
   Instructor: Michael Donovan  
   **Session 2**  
   Grades 2-3  
   9:00  
   K-1  
   10:30  
   Grab your safety goggles and imaginations and get ready for loads of weird, wild and fizzy science lab adventures! Campers will learn the scientific principles behind everyday phenomenon. We will ask “How, Why and What if” while we make quicksand, electric play-doh, swimming spaghetti, dancing raisins, magnetic fluid, a levitating orb and more. Our experimenters will learn skills for problem solving, creative thinking, decision making, hypothesizing and drawing conclusions while discovering the awesome booms, bangs & fizzy fun behind science.

3. **New – Art of Science**  
   Instructor: Sabra Rivel  
   **Session 1**  
   Grades 2-3  
   9:00  
   K-1  
   10:30  
   Calling mad scientists to create artistic masterpieces! Campers will have great fun creating imaginative works of art while exploring fascinating scientific concepts. We will make things ooze, bubble, drip, and spin by investigating topics such as gravity, density, cohesion, centrifuge and viscosity. Make nebulae out of glue, grow beautiful crystals, capture rainbows on paper, use flowers to make paint, create your own tie dye with Sharpie markers and more! This class will engage and inspire young artists to develop a lifelong interest in the amazing world of science... grab your lab coat and your smock and join us!
4. New – DoodleMatic Game Maker
   Instructor: Alysha Horstman
   Session 1
   Grades K-2  9:00
   1-3  10:30

   This class is for every young artist that has ever said “I want to be a game designer!” or “I want to see my picture move!” In this class campers will start by drawing games on paper with markers. Using the brand-new innovative app, DoodleMatic and just one click of the camera (no coding needed!) campers will see their game come to life and play it on the iPad! Campers will learn beginning game mechanics while making a series of games, their own characters, stories and drawings. The class will use a story telling framework, connecting literacy and game design by linking concepts like characters and avatars, settings and worlds, conflicts and hazards. Campers will have special access to DoodleMatic Power-ups, to add additional features to their games and will experiment with fun materials like colored paper, fabric, candy, stickers, buttons and more to make their games.
   DoodleMatic Fee: $25

5. New – Seussville
   Instructor: Linda Andrews
   Session 2
   Grades K-2  9:00

   Join us in Whoville as we enter the wonderful worlds created by Dr. Seuss and his captivating, hilarious books and characters. We will explore many of his famous tales and artistically create our favorite characters like The Cat in The Hat, Horton, Star-Belly Sneetches, Red Fish, Thing 1 & 2, Yertle the Turtle, The Lorax, Fox in Socks and others! We will work with various art materials and decorations to make the characters we love and allow our imaginations to design our own Seuss inspired friends.

6. New – Curious George Goes to Camp
   Instructor: Linda Andrews
   Session 2
   Grades K-1  10:30

   Curious George, everyone’s favorite mischievous monkey investigates his world because everything fascinates him! His (mis)adventures include riding a bike and a roller coaster, making pizza, playing ball, going camping and to the zoo. George, the Man in the Yellow Hat and his friends usually manage to make us laugh and save the day. We will work with various art materials to design projects to recreate the characters we love and make our own “Curious George Goes to Camp” book.
7. New – Climate Control
Instructor: Allan Pearlman

Climate science is an important topic in today's news, so let's study weather and exactly what conditions cause sunshine, rain, hail, snow and more! Experiments will introduce us to the greenhouse effect and properties of carbon dioxide as we learn how and why this affects our living environment. Learn how temperature, heat, humidity, and air pressure effect the atmosphere and how we measure them using Thermometers, Barometers, Hygrometers and Anemometers. What is the most powerful weather system and can we make one in a bottle? Why does water break that glass bottle your Mom forgot in the freezer? What will happen if the glaciers melt and the oceans rise? How do humans affect the weather patterns and the trend of global warming? We will explore the answers to all of these important questions.

8. New - Fantastic Beasts and How to Make Them
Instructor: Anne O'Connor

Get a little messy—and a lot creative—with papier-mache, clay, and other sculptural materials in this class. Let out those magical beasts that live in your imagination—whether they are dragons or unicorns, or even a puppy or pig. Starting with simple forms, you will learn to design and build some of your favorite creatures, and then make them move and come to life with stop-motion animation! You can have your beasts act out a scene from your favorite story, or create your own adventure for them.

9. New - Math Masters
Instructor: Kenya Paterra

It's amazing what you can do with a deck of cards and a few dice... Sharpen your pencils and master your numbers skills with an engaging hands-on curriculum. In this mathematically focused class campers will be challenged through playing games, solving logic puzzles, brain teasers, group problem solving and riddles. Design your own exciting "mathtastic" interactive board game to share with classmates, friends and family!
10. The Illusionist  
Instructor: Joseph Fields  
Session 1&2  
Grades 1-3  
10:30

Have you ever wanted to make a coin disappear, read someone else’s mind, make solid objects pass through each other or cause a rope cut in two to magically restore itself? Learn how to do this and much more by joining renowned magician Joseph Fields to uncover magic’s biggest secrets. Fool your friends and be the life of the party. The delightful art of balloon sculpture will also be taught. Transform yourself into an illusionist with your personalized magic briefcase full of tricks!  
Magic Fee: $40

11. Checkmate 1  
Instructor: Anatoly Tonkonogy  
Session 1&2  
All Grades  
9:00

An introduction to the exciting world of chess. Chess enables children to develop and enhance their skills in discipline, concentration and patience. Students will learn basic opening, middlegame, and endgame strategies and how to achieve a proper coordination of pieces. Chess notation will be taught in order to review games. Instruction will establish an appropriate balance between lecture, discussion and structured play. Remember, chess makes you smart!

12. LEGO Tech Junior  
Instructor: John Fitzsimmons  
Session 1&2  
Grades K-2  
9:00

Use Legos as the inspiration to construct, investigate and communicate like little Einsteins. Students will use models to predict, observe, measure and collect data, experiencing forces, motion, energy, mechanisms and magnetism first hand. They will develop complex problem solving skills and understand the interaction between forces and motion, measurement, energy, speed (velocity) and weight (mass). This course will introduce campers to simple machines concepts while building teamwork and communication skills. They will discover basic physical science concepts such as gears, pulleys, levers, and wheels and axles through observation, reasoning, prediction, and critical thinking.  
Lego Fee: $25
13. **LEGO Tech**  
Instructor: John Fitzsimmons  
Session 1&2  
Grades 2-4  10:30

Do you want to know how things work? Do you ask the question “why” often? Do you dream of tomorrow? Then come and enjoy “LEGO’s Simple and Motorized Mechanisms.” This course is designed to give campers an understanding of machines, mechanisms, structures, and mechanical advantage. You will explore the world of technology by studying and building projects that use renewable and alternative energy sources such as wind, solar power, water and your own body. You will investigate energy supply, transfer, accumulation, conversion and consumption through hands-on activities and exciting real life models. You are the engineer, you design, you build, you turn your dreams into reality.  
Lego Fee: $25

14. **Little Fashionistas**  
Instructor: Ying Su  
Session 2  
Grades 1-3  9:00

For all the little aspiring fashion designers, this is the perfect class for you! A professional designer will teach techniques of fashion including illustration, creating mood boards, working with fabric swatches and colors, and basic sewing. Campers will work creatively and technically while having fun and creating their own style! At the end of the program, all students will have their mood boards, an LED bag and a fashion top to add to their collections.  
Fashion Fee: $30

15. **New - Edison Robotics**  
Instructor: STEM Staff  
Session 1&2  
Grades 2-5  9:00

Enter the world of robotics and coding with Edison Robotics. The Edison robot is a powerful, engaging tool for teaching children computational thinking and computer programming in a hands-on way. Campers can immerse themselves in a variety of STEM and engineering projects as they learn to build and invent. Using the EdBlocks and EdScratch software, these programmable robots will open up the world of coding and bring computer science to life. Students will take home their kit to continue exploring with Edison.  
Robot Fee: $50
16. Gizmos and Gadgets
Instructor: STEM Staff

Using the littleBits Gizmos and Gadgets Kit, students will be given a toolbox as big as their imagination. littleBits encourage students to play and experiment through active experience, enabling them to construct knowledge that can be applied to real-life situations. Motors, wheels, lights, switches, servos, buzzers, even the tools to build a remote control—snap it all together to spark creativity and fun. From remote control racecars to automatic bubble blowing devices to a wireless doorbell, the possibilities are limitless. Students will start inventing the minute they open the box and bring their kit home to continue inventing. Develop creativity and engineering skills as you reinvent the world around you.

Gizmos & Gadget Fee: $150

17. New- “Annie”
Anne Pasquale, Artistic Director
Regina Talbot, Musical Director

Step back in time to December 1933 as we present one of the best-loved shows of all time... Annie has become a worldwide phenomenon and was the winner of seven Tony Awards, including Best Musical. In this Annie Kids production, the spunky and optimistic Annie charms everyone’s hearts despite a next-to-nothing start in a New York City orphanage. Annie is determined to find the parents who abandoned her years ago on the doorstep of an orphanage run by the cruel Miss Hannigan. With the help of her orphan friends and President Franklin Roosevelt, Annie eventually foil Miss Hannigan’s evil plot finding a new home and family in billionaire Oliver Warbucks and a lovable mutt named Sandy. Our exciting musical numbers include “It’s The Hard Knock Life,” “Tomorrow,” “NYC,” and “You’re Never Fully Dressed Without A Smile.” At the conclusion of the session, parents and campers will join us for a spectacular production.

Script, score, costume and materials fee: $50

18. New - “The Legend of Mulan”
Anne Pasquale, Artistic Director

The “Legend of Mulan” tells the story of a fearless young woman in ancient China. Mulan disguises herself as a boy to join the Imperial Army in her father’s place in order to save his life, help defeat the Huns and bring honor to her family. She leads us on an epic journey over mountains, rivers, hills and valleys showing courage, bravery and tenacity along the way. The resourceful Mulan saves her battalion and rescues China from the invading Huns... she then reveals her true identity and inspires us to be the best we can be. Mulan knows it doesn’t matter if she is a boy or a girl - she just wants to leave the world a better place, a mark of a true hero!” Our entire cast will sing and dance to songs such as “I’ll Make a Man out of You,” and “Reflections,” So take Mulan’s hand and join her and the dragon — flying away on the Chinese winds, over the vast landscape of possibilities! At the conclusion of the session, parents and campers will join us for a spectacular production.

Script, score, costume and materials fee: $50
19. New - Platform 9 ¾
Instructor: Sara Teimor Charles
Calling all wizards, muggles, witches, and more! You have been accepted into Hogwarts School of Wizardry and Witchcraft. Before you can sit for your O.W.L. exams, you must create your own owl, snitch, wand, and master the potion required to create “butterbeer.” Next, you will move on to N.E.W.T. level as you write and illustrate your own magical piece of Harry Potter fan fiction.

20. Photo Finish
Instructor: Liz Steger-Hartzman
This exciting class will teach the fundamentals of basic digital photography to capture images throughout the camp setting. Campers are required to have a digital camera or cell phone camera fully charged each day for class. Liz will teach you all you need to know to develop your photographic eye. Class time will be spent learning technique, shooting pictures and printing for your portfolio and weekly contests. All of the campers in this class will also take turns using a real DSLR camera. The class will design and produce a published "Challenge Camp Photo Magazine" and each camper will receive a personal digital portfolio featuring their best work.

21. Fun with Photoshop
Instructor: Liz Steger-Hartzman
Have you ever wondered how funny pictures are made? Have you seen a cat’s head looking natural on a person’s body? What about the imperfect photo made perfect? In this class you will learn about all of the tools to enhance your pictures and make fun photos. Topics include basic image editing, transformation, retouching, enhancement, and compositing taught by a professional photographer. Campers will work on their own portfolios and participate in group projects. We will be working in Photoshop CC and students participating in Photo Finish will learn advanced techniques.
Photoshop Fee: $50

22. New – Stop Motion Laboratory
Instructor: Anne O’Connor
Whether you love drawing, painting and sculpture or whether you would like to write stories or act out dramatic scenes, you will have fun exploring the possibilities of animation. Spend a little time learning the basics of handling the camera setup and stop-motion app, then let your imagination take off as you bring your drawings to life, or create your own 3-D characters with modeling clay. You can also use small toys, or even animate real people in your films. Students will receive a digital copy of their films and can take home artwork they created while making it.
23. Wall Street
Instructor: Sid Jain
Session 1
Grades 3-5  10:30

In this general introduction to Wall Street, students will gain insight into the functioning of the stock market and what role it plays in the economy. We will explore what stock ownership is, the type of stocks that exist and how to invest. By examining the day to day operations of the stock market, we will understand the difference in perspectives and outcomes. Campers will select a few stocks, learn about each of them and create a group portfolio. The fun continues as we review our purchases while learning to use the tools available to assist in our decisions to buy, sell or hold each stock! We will continue to evaluate our portfolio and discuss the latest news and economic developments that impact our investments.

24. Junior Entrepreneur
Instructor: Sid Jain
Session 2
Grades 3-5  9:00
5-9  10:30

Have you ever wanted to run your own small business and make your own design, plan, price and sales decisions... here is your chance! Campers will enter the shark tank and become entrepreneurs building an idea from scratch and ending with a business plan. You’ll be challenged from concept to generation of a product or service including marketing and advertising. After honing your analytical, logical and communication skills, you’ll confidently present your plan to “investors” from Wall Street and raise play-money. Learning practical and operational aspects of the stock market, campers will determine the most viable businesses. Entrepreneurs will also brainstorm ideas for games and services for the annual Challenge Cares Carnival. Running the “show” takes creative talent and great enthusiasm. We need planners, organizers, decision makers and salespeople as we discuss costs and potential profits, decorate the carnival space, plan marketing/advertising strategies and ensure fun is had by all. Money raised will be used for charitable entity chosen by Challenge Camp. Last year’s class donated $3,000.00 to Swim Across America.

25. CITYscapes
Instructor: Ana Saura
Session 1
Grades 3-9  9:00

Create your own three-dimensional artwork à la Charles Fazzino! After being introduced to magnificent Mayan, European and Asian architectural styles, you will design an imaginary city and using this fascinating technique, will create a cityscape that will literally POP off the page! This program integrates an appreciation of architecture with learning how to design, plan and produce 3-D art.
Workshops

26. New - MOMA
Instructor: Ana Saura

Pablo Picasso completed his first painting at age nine, explore your own creativity as we examine the magnificent painting styles and works of the worlds greatest artists. While learning about color, perspective and composition, students will paint works inspired by the styles of Van Gogh, Monet, Da Vinci and Picasso. From Impressionism to modern cubism, each thrilling week of lessons will produce your very own painting to decorate your world.

27. New - I Want My Mummy
Instructor: Ana Saura

Travel back in time to the land of the Pharaohs and explore the wondrous pyramids and miraculous mummies. Learn about the life of the Egyptians of thousands of years ago filled with unbelievable riches and golden jewels. Create fascinating artifacts from this ancient civilization such as paper plaster carvings, maps, pyramid models, mummy cases, jewelry and papier-mache mummies. You will write in hieroglyphics and recreate it on papyrus that you will craft. Come join us in an artistic world of mystery, wonder and intrigue.

28. New - Urban Design
Instructor: Ana Saura

In this artistic and architectural journey you will be exploring the design and creation of different architectural styles. We will begin with concepts of ratio and proportion and end with a scale model built according to each student's own specifications. You will discover the uniqueness of old and new design techniques as you construct your own scale model buildings, bridges, skyscrapers, malls or homes. Materials will consist of foam board, wood, wire, color and special effects... even people, trees, bridges and cars. The design and construction of a model is a flexible open minded project which utilizes brainstorming, provides opportunities for divergent thinking as well as develops sensitivity to our environment.

29. Challenge Makerspace
Instructor: STEM STAFF

Are you eager to create, want to experiment, and excited about new possibilities? Makerspaces provide hands-on, creative ways to encourage students to design, experiment, build and invent as they engage in science, engineering and tinkering. In this project based STEM class campers will work in collaborative setting and build invaluable problem solving skills. Example projects may include building bridges, catapults, electric boats, a flashlight, pendulums, a stomp rocket, pneumatic machines and more. Maker Fee: $100
30. New – Escape Room  
Instructor: Sara Teimor Charles  
Session 2  
Grades 5-9  9:00  
3-5  10:30

Trapped in a room with a group of friends and one way out, you must search for clues and solve several kinds of puzzles and riddles to plot your great escape. When the challenge has been mastered, you will be guaranteed laughter, a sense of accomplishment and a new respect for your classmates and their abilities. Groups will complete a series of escape room challenges together and will then design their own escape room models and games for others to solve. This is an experience that will be remembered for a lifetime... assuming you ever make it out!

31. New – Spy Kids  
Instructor: Allan Pearlman  
Session 2  
Grades 2-4  9:00  
5-9  10:30

Enter the shadow-world of spying where all is not what it seems and where your camper will discover a new way of thinking about the world in which they live. Spy training begins with learning how to keenly observe your surroundings and collect intelligence. Design believable disguises, aliases and cover stories to create deception. We will learn how codes and ciphers function, and develop encryption and codebreaking techniques. Through projects like making invisible ink, we will discover methods of deception for surveillance and the scientific principles behind spy gadgets and technology used in espionage. Our special ops final challenge will test your critical thinking, analysis, and problem solving skills, to draw both logical and out of the box conclusions.

32. Recording: In Session with GarageBand  
Instructor: Jim Weingast  
Session 1  
Grades 5-9  9:00

What do Taylor Swift, Justin Beiber and The Rolling Stones all have in common? They make music in a recording studio. With modern technology, you and your classmates can write and record your own Music, Podcasts & MP3's from the Challenge Camp music room. You will learn the secrets of the music industry... that you can write, record, produce and distribute your own music or other content from your home with GarageBand. You can even upload your music and podcasts to YouTube. No musical experience is necessary but students are encouraged to bring their own instruments and abilities to class. We will use our combined musical and creative talents to record popular and original songs that we will compose together! Whether you want to be the next Jimmy Page, Jack White or Lady Gaga, this class is awesome! Our class will record songs to share with family and friends via MP3's in Google Drive and/or Dropbox as a final project.
Workshops

33. Rock Star
Instructor: Jim Weingast

Session 1
Grades 3-9  10:30

Have you ever wanted to be in a rock and roll band? This class is an ensemble course providing instruction for musicians who wish to experience all facets of playing, rehearsing and performing with a rock band. The typical lineup of a band is rhythm guitar, lead guitar, bass and drums with a vocalist. Other instruments can be added to any band – keyboard players, fiddle players, horns, and auxiliary percussion players to increase the soundscape of the music. Challenge Camp provides amplification for guitarists, a bassist, a drum set, a keyboard and a P.A. for lead and backup vocals. This course is recommended for campers with musical training and a willingness to bring their own instruments. Beginners are welcome to join in the fun as well. The culmination of rock band class will include a performance for fellow campers as a final project.

34. Satellite Radio
Instructor: Jim Weingast

Session 2
Grades 5-9  9:00
2-4  10:30

Tune in to the coolest radio station riding the airwaves. Campers will create their own radio show featuring talk radio, interviews, sports broadcasts and spinning tunes. Musicians will perform "live in our studio." We will explore the history of radio from the great shows of old to current Terrestrial & Satellite radio as well as streaming technology. You will learn creative secrets of audio effects and the "business" of radio. The Campers will write, produce content, and record original broadcasts as well as podcasts. The Satellite Radio broadcast crew will even create "commercials." This class includes plenty of laughs and fun while we learn. This class is hands-on, interactive, fun and educational. Camp Broadcasters will learn to record and produce their own MP3's to share with family and friends as a final project.

35. Challenge Film Academy
Instructor: Tony Ely

Session 1
Grades 6-9  9:00
3-5  10:30

Why sit at home watching movies when you could be making them yourself? At the Challenge Film Academy, beginning and experienced students will participate in the full process of constructing an original, professional Short Film. Led by a professional Director, campers will be a part of a high quality team effort to brainstorm ideas, storyboard, location scout, shoot, direct and act in their very own class creation. The campers will help determine costumes, props, credits and all aspects of the creative process. We will also discuss and learn how to pull their film together through editing using Premiere Pro. Popcorn and reviews will accompany our film premiere! Film Fee: $50
36. Drone Flight School  
Instructor: Michael Leon and Tony Reid 
Session 1&2  
Grades 3-9  10:30

Our beginning drone class will explore the various uses of drones. They can be used for delivery, surveillance and security, aerial photography, filmmaking and more. We will discuss safe and responsible drone operation and local laws that apply. Campers will then fly their pre-assembled drones using Line of Sight (LOS) techniques. With practice, our new drone pilots will fly through obstacles and learn advanced flying techniques. Each camper will take home their own fully-functional drone. 
Drone Fee: $300

37. Fashion Forward Wearable Tech  
Instructor: Ying Su  
Session 2  
Grades 3-9  10:30

Do you have interest in learning the art of fashion design from a professional designer? Join us in the fashion studio to discover the latest fashion trends including modern designs and wearable LED technology. Learn to put together fashion design ideas/concepts, work with design tools and fashion art supplies to illustrate your ideas! You will work with fabric and colors to come up with your own collection on mood boards. This imaginative course combines both creative and technical aspects of fashion design to create your own beautiful LED skirt and messenger bags to make your own unique statement to the world. 
Fashion Fee: $40

38. The Illusionist 2  
Instructor: Joseph Fields  
Session 1&2  
Grades 4-9  9:00

Would you like to perform like Criss Angel, David Blaine, and David Copperfield? If you do, this is your chance to discover the magic secrets that these and many other professionals use to baffle audiences worldwide. Join Joseph Fields this summer and learn the secrets, the sleight of hand and the proverbial tricks of the trade that helped make these professionals famous. Imagination, individuality and creativity will be encouraged to develop a personal magical act with polished showmanship. Extraordinary and advanced balloon sculpture techniques will be learned! Advanced magical secrets of illusion, levitation and sleight-of-hand will highlight this course as well as presentation and performance before an audience. Enhance your skills and transform yourself into a master illusionist with your personalized magic briefcase full of tricks. 
Magic Fee: $50

39. Checkmate 2  
Instructor: Anatoly Tonkonogy  
Session 1&2  
All Grades 10:30  
Intermediate

Suitable for students who have already acquired a working knowledge of chess. The course will focus on methods of attack and defense, on long term strategic planning as well as tactics and combinations. Students will learn useful skills such as pattern recognition, calculating and analyzing. Classroom lectures will emphasize the elements of logical thinking through a series of chess puzzles.
40. Grand Prix
Instructor: STEM Staff

Session 1
Grades 5-9  9:00

Prepare to break into the world of Real Radio Control. We will build an introductory model car which will feature powerful electric motors, actual suspensions and rechargeable batteries for "never-ending" fun in competition. Materials fee includes: 1/10th scale radio control model car, 2 channel radio, 2 rechargeable batteries, AC/DC Battery charger, paint, and necessary tools. Assembly, finishing, customizing, tuning up and participating in competitions are just a few of the skills you will learn in this unlimited world of radio control modeling.

Supply Fee: $300

41. Sumo Robotics
Instructor: STEM STAFF

Session 1
Grades 5-9  10:30

Bring the fascinating world of robotics, engineering and electronics alive. The students in this challenging class will learn about gears, motors, tools and components used in modern electronic devices. Then they will perform intricate soldering and assembly of mechanical and electronic parts to complete their own Sumovore Mini Sumo Robot; www.solarbotics.com/product/k_sv/. This powerful and speedy robot, using brainboards and six sensors, tracks opposing robots while staying in our class sumo ring. Get ready to battle your classmates in the Great Mini Sumo Games! Students will keep their tool kit and assembled Sumovore robot.

Robot Fee: $160

42. Opening Bell
Instructor: Sid Jain

Session 1
Grades 5-9  9:00

In this introduction to Wall Street and the Stock Market class, students will build a stock portfolio and compete for the "best stock picker at Challenge Camp" bragging rights. After watching the Opening Bell at the NYSE and NASDAQ each day, our work begins! We will discuss a general understanding of stocks and cover the analytical and operating aspects of the stock market. We will begin by evaluating and selecting and buying stocks. We will review our stocks daily and debate our purchases while learning to use the tools available to assist in our decisions to buy, sell or hold each stock within our individual portfolios. By understanding how the stock market works, we will know the pros and cons of investing and how to buy low and sell high!
43. **New – Chemical Reactions**  
Instructor: Angela Puia

Chemistry is everywhere around us! In this exciting hands on class we will introduce students to unusual and unexpected chemical reactions explaining how and why they occur. We will learn about the chemistry of baking, what makes dough rise, cheese curdle and canned whipped cream spray? What are electrolytes and why are they in my sports drink? Exactly what are fermentation, oxidation and emulsification and how do they effect our everyday life? We will study flammable substances and create a few surprise reactions surrounding density, dialysis, reduction, osmosis, chromatography and crystallization. Make an active volcano and elephant toothpaste... experiments also include a pH red cabbage indicator and diffusion artwork!

44. **New - Lab Luminaries**  
Instructor: Angela Puia

Join us in the laboratory to meet Marie Curie, Isaac Newton, Galvani, Galileo, Pasteur and Watson & Crick to name a few of science’s greatest pioneers. Campers will become familiar with scientists who have contributed to the world’s greatest discoveries. We will explore their accomplishments by performing activities such as: extracting DNA, testing gravity and motion, examining x-rays, studying germs, dissecting light and forming fossils. This hands-on lab science class exploring true giants of physics, chemistry and biology is enlightening and may inspire you to become a lab luminary!

45. **Blender 3D Simulations**  
Instructor: Dan Tepper

Blender is a powerful 3D computer graphics software toolset which is used to create animated films, physics simulations, video games and so much more. Using Blender, you can create an impossible scene by controlling and animating physics: Quickly build a tower just to knock it down and watch how it falls from any angle. Pour water into a glass cup and get the perfect, photo-realistic picture as it splashes out, Write your name in big 3D letters and then hit it with a wrecking ball - smashing it into a million pieces! Computer creativity and imagination is all you need to produce endless animated possibilities.
Workshops

46. New - VR Explorers
Instructor: Dan Tepper

Introducing a new and exciting experience! Come explore the fascinating world of Virtual Reality through interactive and immersive coding techniques creating your own 3D space. Design a custom VR environment with CoSpaces adding objects, structures, landscapes and characters allowing you to experience your own historical scene or futuristic world as if you were standing in it. Use VR viewers to experience and perfect your world while helping classmates to improve theirs. The fun continues as you take home your own cardboard VR viewer, plus access to your CoSpaces account and the virtual experience you created... one that anyone can explore with the CoSpaces app!

47. FPV Drone Builder
Instructor: Michael Leon and Tony Reid

In this exciting technical course we will build a First Person View (FPV) Racing Drone. Building and programming are taught as an important part of this assembly process. Campers will learn how to fly from a FPV, as if you were in the cockpit and practice flying and racing techniques, including races of our own! We will address safe and ethical uses of drones and learn to be responsible drone operators and owners. Each camper will assemble and keep their own fully-functional drone and FPV goggles.
Drone Fee: $500

Instructor: Geoffrey Byrne

Minecraft combines ultra simple graphics and game play coupled with multi player in several different modes accessible to learn at different levels. Journey from simple game play, to more complex world creation and server hosting. Students will work together to create their own procedurally generated world with an almost infinite combination or primitive mechanical devices, electrical circuits, and logic gates built with an in-game materials known as Redstone. Using teamwork to create a world from the ground up, Minecraft will serve as a gateway to enlighten students how to safely and securely utilize technology involved in game creation. Through cooperative play, campers will learn subtle life lessons about rules to be followed which affect their gameplay both on and offline. Many aspects of the computer science and information systems worlds will be introduced including but not limited to software programming, overall concepts and principles of networking and the hardware required in building these seemingly complex systems.

PLEASE HAVE A CURRENT MINECRAFT ACCOUNT PRIOR TO THE START OF CAMP
**Fortnite is Rated T for TEEN by the ESRB**

**50. PC Builders Academy**
Instructor: Geoffrey Byrne

Ever wonder what it takes to actually assemble a personal computer? In this course we will learn about each component by tearing down and rebuilding used PCs, then we will build our own from soup to nuts! Starting with a bare case, to the motherboard, to the operating system and software involved, we will fully assemble, operate, tweak, and in the end of the take home our new blazing PC! This PC can replace that aging desktop at home.

Computer Fee: $650

**51. Indie Game Maker**
Instructor: STEM STAFF

Calling all aspiring video game developers! Using the Unity game engine, students will work in teams to create a 2D platformer. This means that everything from sprite art to music will all be developed by them with free software tools like Piskel a simple drawing and animation tool, and Bosca Ceol for audio production. The main goal of this course is to have students concentrate on the creative aspects of game development in order to make something that's appealing and fun. While we will be using C# scripts to control the behavior of the objects on screen, students will modifying pre-written code provided by the instructor. Whether you have experience coding or not, all that is required is a little bit of creativity and a passion for video games.
**Workshops**

52. **Battle Bots**  
**Instructor:** STEM STAFF  
**Session 2**  
**Grades 5-9**  
10:30

Game on automaton! Have you ever competed in a robot-against-robot challenge? In this course we will design VEX IQ robots to meet a predetermined objective and then compete against each other in achieving that task. We will explore the basics of mechanical, electrical and programming structures to create our own individual solutions to the problems presented. Each camper will gain engineering skills through efforts to conceive, test, adjust, retest and evolve a fully-functional competitive robot. Each participant will take home their device for continued fun and learning!  
*Robot Fee: $350*

53. **3D Printing the Future**  
**Instructor:** Jim Stanley  
**Session 2**  
**Grades 3-9**  
9:00

This course is designed to introduce 3D modeling and printing techniques to beginners. Campers will learn an overview of the components of the printer and how the process works. They will learn how to navigate a variety of 3D design software including the popular TinkerCad, Cura and Meshmixer to develop their own 3D models. In this project based course the students will learn the possibilities for creativity are endless and will take home a printer and filament to continue inventing.  
*3D Printer and Plastic Filament Fee: $350*

54. **New - 3D Printing Unleashed**  
**Instructor:** Jim Stanley  
**Session 2**  
**Grades 5-9**  
10:30

Building upon the core concepts of 3D printing, this curriculum will explore advanced techniques for designing and preparing 3D models for printing, the basics of support structures, exploring exotic wood and flexible filaments, and troubleshooting common situations that may arise. The course will include more in-depth look at software tools and techniques, such as creating see-through lithophanes with images, and basic 3D scanning techniques through photogrammetry. Campers will take home their printer, filament and the exciting potential of 3D printing will be unleashed.  
*3D Printer and Plastic Filament Fee: $450*

55. **Counselor in Training (CIT)**  
**Instructor:** Marcy Geisser-Wolf  
**Session 1&2**  
**Grades 9-10**  
9:00-4:00

This course is an exceptional opportunity to learn and train to be a counselor in the Challenge Camp environment. The course meets daily and will involve such topics as: camper socialization, assistant teaching and coaching, building self-esteem, conflict resolution and more. Lunch is provided and the remainder of the day will be spent hands-on with our campers utilizing new skills. Session 1 CIT’s will receive full CPR and First Aid certification as part of this curriculum. This course is continuous for 7 weeks and will allow you to grow as an individual with an emphasis on achievement, maturity and responsibility.  
*CIT candidates must be 15 years of age by June 15, 2019.*  
*Course Fee: $1,000 Session 1 or 2*  
*$1,750 Sessions 1 & 2*
1. 3D PRINTING THE FUTURE - This course is designed to introduce 3D modeling and printing techniques to beginners. Campers will learn an overview of the components of the printer and how the process works. They will learn how to navigate a variety of 3D design software including the popular TinkerCad, Cura and Meshmixer to develop their own 3D models. In this project based course the students will learn the possibilities for creativity are endless and will take home a printer and filament to continue inventing. 3D Printer and Plastic Filament Fee: $350

2. New - 3D PUZZLES AND MAZES – The design and artistry of mazes will both inspire and boggle the mind! In this workshop campers will create and solve mechanical puzzles made of metal and wood, as well as design their own puzzles. Mazes and labyrinths will be brought to life as a walk through problem solving experience. These clever puzzles will provide a boost of brainpower and ignite your logic skills!

3. ARDUINO APPLICATIONS – What is a robot without a brain? Why is a smart phone so smart? How do you make your computer turn a motor? All of these are a result of microcontrollers, the next step in computing and technology. Here is an opportunity to learn how to use microcontrollers using the Arduino platform. Learn the basics of electrical engineering and programming as we build a number of projects using a basic starter kit and your imagination! Arduino Kit Fee: $75

4. ART ON THE MOVE - So much fun for our littlest campers! We will begin each class with a themed dance such as “Hawaiian Luau” or “Animal Safari” and then create an art piece related to our dance using clay, colored pencils, cut paper and more.

5. BLOXELS WORLD - Bloxels are a hands-on, brains-on, creativity and technology experience. Bloxels unlock students creativity by leveraging something they love: video games. Students can play fun games and channel their creative potential as they gain greater understanding of important topics like design logic, and computer science and demonstrate their knowledge of history, science and mathematics and more through the games they create. Take home your own Bloxels set and board to keep the creativity going! Bloxels Fee: $60

6. New - BRICKFILMS LEGO ANIMATION - Brickfilms are animations made with Lego minifigures using stop-motion techniques. They are a great way to get involved with filmmaking for anyone who loves Legos. Students will work in small groups to develop story lines, design and build Lego movie sets and create short films on various themes including superheroes, space battles, princesses and more! We will also learn to edit our movies, create special effects, and add sound. Brickfilms Fee: $25

7. New - BUTTERFLIES IN FLIGHT - Join us in the nature art studio as we make beautiful butterfly mobiles with feathers, paint, sparkles and more. Happily design and create colorful butterfly friends with wings to soar!

8. CHESS CHALLENGE – Chess is a tremendously popular activity at Challenge Camp! Come to play individual and team games against opponents of all ages and abilities. Develop your own chess strategy and tactics through supervised play.

9. CODE CENTRAL STATION: HTML & JAVA - Every webpage you look at is written in a language called HTML, the skeleton that gives every webpage its structure. Java is a popular programming language that provides interactive dynamic content for web pages. This course will provide you with a solid foundation in web design, computer science and Object Oriented Programming concepts while learning the basics of Java and HTML. Code literacy is an essential skill that will provide campers with coding principles to learn advanced programming techniques. There are no prerequisites other than a desire to learn.
10. CODE CENTRAL STATION: PYTHON – This course aims to teach the basics of Python, an object oriented programming language. Perfect for beginning programmers or budding technologists to squeeze programming power and fun out of their computer, Python uses a simple syntax and has an easy learning curve. Learn about variables, loops, decision statements, and other basic programming concepts using this easy-to-read programming language. The coding principles will provide the building blocks to learn programming languages in the future. There are no prerequisites other than a desire to learn.

11. CODE CENTRAL STATION: TINKER WITH TYNKER - In this class, students will learn how to create their own video games using the Tynker software. Tynker is a visual programming language that enables students to create games and animated projects. Using visual code blocks, Tynker guides you through programming concepts – such as loops, conditional logic, sequencing, and algorithmic thinking. This will prepare them for learning programming languages like Java and Python. Students will learn how to tell a good story, logically sequence events, and model real situations while increasing their technical proficiency and confidence. The lessons will enable them to create their very own video games!

12. COMPUTER SIMULATION – Join us in the computer lab as we delve into simulated strategies and tactics with numerous engaging software titles. These include “Megaman” “Roller Coaster Creator”, “2 Fast Driver”, “Paintball Sim”, “Dancing Craze”, “Crazy Cooking” and more. Computer Sim continues to be one of the most popular classes at Challenge Camp!

13. CURIOS CHEF - In this class, campers will learn the basics of cooking and healthy eating. Cooking is math, science and an art. Chefs will learn kitchen organization, following directions, measuring and preparing ingredients to complete a recipe from start to finish. Experience making simple foods from scratch and create the foundation to be good chefs and more informed eaters.
Cooking Fee: $90

14. DIGITAL COMICS - Digital graphic comics and stories are extremely popular with campers of all ages! In this engaging digital storytelling class we will read, write and illustrate our own comics and designs. You don't have to be an artist as there is themed art from you to pick from, incredible animation and loads of templates to start story building with! If you have an idea, you can quickly create visually dazzling content for your story. Create and animate your characters, word balloons, sound effects and bring your original stories to life on screen!

15. New - DJ JAM - Drop the beat in this fun “how to” DJ course. Learn the fundamentals of cutting and transitioning music tracks to have a cohesive flow. Join DJ Mikey to learn the history of DJing as well as knowing how to adapt to the audience you are spinning for on the dance floor. Selection of music and being a smart DJ is key to keeping the momentum and fun of a party going!
DJ Fee: $75

16. New - DRUM CIRCLE - For beginners to intermediate players this is a totally “hands-on” and unique approach to studying rhythm in many forms. We will discuss the history of percussion and look at rhythms from around the world. There will be lessons on hand drums, drum circle and playing on a drum set! We will play other percussion instruments like congas, shakers, cow bells, tambourines and more. Don't miss this chance to learn and play with a real rock/jazz musician!

17. DUNGEONS & DRAGONS – If you can imagine and think of lands and magical creatures, then you can play Dungeons and Dragons. Think of yourself as a character in a book. Imagine magical places and items – many surprises lie ahead.
18. FENCING – En garde! Learn the exciting Olympic sport of fencing! Parry, cut, and lunge, as you improve strength, coordination, focus, balance and more. Fencing is a high-speed, exhilarating sport that relies on quick wits and cunning, and engages the entire body along with the mind... most importantly, it's FUN! 
Fencing Fee: SESSION 1 - $100 SESSION 2 - $75

19. FIELD SPORTS - This class is designed to keep the campers moving! Field sports will explore a variety of athletic activities and will include: kickball, flag football, frisbee, soccer and field games like obstacle courses and relay races.

20. New - FIELD SPORTS JUNIOR – Specifically designed for 5-7 year olds, this sports activity and recreational games program is a wonderful introduction to the world of sports. All activities are designed to enhance and develop motor skills, coordination and sportsmanship through active play and instruction. Some of these activities include: running games, parachute challenges, throwing, catching, kick ball and more.

21. GLEE – Be a musical star in our show choir as we perform works from various Broadway shows, from Rodgers and Hammerstein classics to the latest pop songs. The course will focus on vocal technique, performance practice, stage presence and basic choreography. There will be opportunities for solo and ensemble singing. Join a choir that will be a showstopper!

22. New – GRAPHIC DESIGN STUDIO - In this class we will learn to think like a designer! We will explore the methods which graphic designers use to communicate their ideas with impact, including playing with positive and negative space, scale (size,) color, typography and much more. Engaging activities will stimulate our creative problem-solving skills. We will be using Adobe Photoshop to create finished projects, including T-shirt designs, posters, and animated graphics.

23. GUITAR JAM - Campers can be complete beginners to intermediate players. This is a course designed to teach the fundamentals of guitar performance. Students will learn to put together elementary chords, melody playing and proper hand techniques to have them playing along with their favorite musicians. Class is a fun environment where we study songs that the students select. The course provides a basic study in beginning music theory with a goal to emphasize guitar technique and performance. If you do not own a guitar, we have several that students can use during class.

24. HIP-HOP DANCE - Learning to be limitless through movement, this action packed hip hop class consists of dance and musical activities that help students with leadership and confidence. Energetic choreography grooves from old school to new school while learning generations of music. 
Hip-Hop Fee: $50

25. New - INTERNATIONAL CHEF - Take a tasty trip around the world with lessons in international cuisine. Tempt your traveling taste buds by making various traditional foods from other countries. Dumplings can be for soups, wontons, samosas, ravioli, or pierogi. This class will explore our global food preferences and differences while embracing what we have in common... while making delicious foods from scratch. Every “traveler” will take home their finished products as well as a folder filled with fun facts and recipes from the different countries we “visit” as we discover the flavors and spices that make them unique.
Cooking Fee: $90

26. New - IRON CHEF - Designed for campers who have some experience in the kitchen. Learn how to cook breakfast, lunch and dinner dishes for your families! Focus on healthier foods and desserts with less sugar. A chef’s knowledge and meal choices really do make a difference in our lives. Campers will learn how to prep ingredients, organize their work space, cook, and plate their well balanced finished foods with pride. 
Cooking Fee: $90
27. IT’S A SMALL WORLD – Through music and songs, we will discover many countries and their musical culture: Korea, France, Ireland, Africa and the United States. You will build a likemba, also called kalimba and make your own “one of a kind” instrument out of recycled materials.

28. K’NEXplorations – This is a hands-on building experience designed to promote creativity and problem solving skills. Mathematical and Science design projects will be integrated to develop skill in construction using Rods and Connectors.

29. LEGO MINDSTORMS – Bring the fascinating world of robotic technology alive with Lego Mindstorms EV3 Robots! This robotics course teaches the students the principles of assembling and operating an interactive Lego Robot. Mathematical standards will be addressed as well as hands on building of mechanical and electrical systems in robotics. Accurate measurement, geometric relationships, problem solving and reasoning skills will be stressed for success. Students will bring science to life utilizing many possible Lego designs in addition to their own creations.

30. LEGO WEDO ROBOTICS - Introduce robotics and computer programming with the award winning Lego WeDo! This is a hands on, challenging and fun way to learn about robots! This class will expose students to engineering, logical thinking, computer programming and team working skills. Campers will build a variety of robots with Legos and program their models to complete challenges, enhancing creativity and problem solving abilities.

31. LET’S GO YU-GI-OH – Yu-Gi-Oh is a popular card game for children. It combines strategy and imagination in fun battles. In one on one show downs players must use their wits to out duel one another and win the game. In this class, beginners will learn the rules of the game and basics of creating a deck of cards. As players advance they will learn the strategy of play in attempting to become master of the game.

32. New - MAGIC: THE GATHERING – Back by popular demand! A game battle in which you and your opponent represent powerful sorcerers attempting to drive each other from the lands of Dominia. Your deck holds your tools: creatures, land, spells and artifacts.

33. New - MARVELOUS MOSAICS - Explore the ancient art of mosaics in this fun and educational class. Broken pieces of colorful tile will be transformed into your artistic vision. The possibilities are endless for campers to create a mosaic masterpiece!

34. MECHANICAL MARVELS - A Rube Goldberg machine is a deliberately over-engineered machine that performs a very simple task in a very complex fashion, usually including a chain reaction. In this class, dominos may knock over a marble into a pegboard activating a pulley triggering a golf ball into a zip line starting a toy truck that eventually grabs a tissue! You will investigate the fundamental concepts of engineering and construct wildly imaginative group mechanical marvels. Our inventors will be able to view a video of their wacky creation online to show to family and friends. Learn more at www.rubegoldberg.com.

35. MUSIQUE FANTASTIQUE – Learn French through music! Our campers will learn a selection of vocabulary and sentence structures while having fun! Instrument playing, sing-along games, finger-play and puppets are used to enhance comprehension through repetition while hearing and feeling the rhythm of the language.
36. NINJA WARRIOR - In this active class, campers will have fun exploring movement through creative elements. Utilizing props and obstacle courses, all will be physically challenged in a multitude of ways helping them gain body awareness and coordination. Campers will explore a range of movements including dynamic jumping, leaping and running as well as more controlled balance and stretching. Speed and endurance will be improved as well as elements of engagement and focus. The goal of this class is to build body confidence and have fun.

37. PICKLEBALL – This fast growing sport combines the elements of badminton, tennis and ping pong. Played on a court with paddles and wiffle balls, pickleball is easier than tennis and fun to play with your friends.

38. PINBALL WIZARD - Construct your own PinBox Pinball machine with two interchangeable playboards that you will design. For makers, creative thinkers and game designers, the PinBox 3000 is a tabletop cardboard pinball kit that artfully integrates mechanical engineering, physics, sculpture, product design and performance! Light up your play board and be ready to “Tilt the Future!”
Pinball Fee: $50

39. POKEMON TCG – Pokemon TCG is an exciting and longtime favorite card game of strategy and skill where campers collect, train, and battle the cute Pokemon characters that inhabit their world. Beginning and experienced players will take on the role of a Pokemon Trainer and play another Trainer to knock each other’s Pokemon out of the battle! Your camp Pokemon deck will be supplied and booster packs await the masters!
Pokemon Fee: $25

40. POP ART EMOJI - This multi media painting class will focus on your favorite emojis. We will use papers, magazines, plastics and more to complete your pop art paintings of smiles, people, animals, objects and activity! Made on canvas, these creative, bright and modern works of art allow you to decide how and where the emojis pop!

41. New - POP ART DESSERT - This multi media painting class will focus on your favorite after dinner sweets and treats. We will use papers, magazines, plastics and more to complete your pop art paintings of the sundaes, cake, pie, fruit and cookies. Made on canvas, these creative, bright and yummy works of art allow you to decide how and where the sprinkles and berries go!

42. New - PROJECT RUNWAY - Budding designers can create paper doll international wardrobe designs for tops, jeans, dresses, gowns and even shoes. Students will develop their own stylish textile designs from a variety of materials including fabric, gauze, cotton, tulle, silk, cardboard, linen, newspaper and feathers. Their runway collection will be stored in their stylish designer trunk of haute couture clothes collages in petite sculptures.

43. RASPBERRY Pi – Raspberry Pi is the world’s smallest, least expensive and most powerful computer for its size. Raspberry Pi was developed by a British company with the purpose of teaching children how to really use a computer, from inline Linux shell commands to basic programming with scripting languages. The Pi is capable of doing many things a full size computer can do such as playing simple games or web browsing. There is an endless supply of projects that can be completed with the Pi. Each camper will take home a basic Raspberry Pi starter kit and a project guide for future experimentation.
Raspberry Pi Kit Fee: $75
44. ROCKET UNIVERSITY – Students will train to be real “rocket scientists” and “aerospace engineers” in this inspired offering. In “Rocket University” you will learn about the history of rockets from ancient Chinese fireworks, to modern day spacecraft and military applications while discovering principals of launching, trajectories, thrust, navigation, flight paths, altitudes, orbits, recovery methods, safety and more! Students will receive their individual rocket kits and assemble them while applying what they have learned to their design and construction. You will launch your rockets and record data. Rocketeers are awarded certificates for best design and rocket performance.
Materials Fee: $85

45. ROCKET UNIVERSITY 2 – This is a course for advanced Rocketeers who have completed Rocketry 1. Students will build and launch more complex models.
Materials Fee: $100

46. New - SECRET GARDEN – Let your imagination blossom as you create your own beautiful artistic garden. You will plant your garden with the living colors of your palette. Materials will include an array of papers, water color, flowers, stones, glitter and more! Works by Monet, Van Gogh and O’Keefe will be our inspiration.

47. New - SPA SCIENCE - Young scientists can join us in our lab to discuss the chemistry behind natural cosmetic products. Discover many ways to make your skin, hair, teeth & nails look great with homemade soaps in all shapes and colors, moisturizers, perfumes, lip balms and amazing natural camp facials!
**Not recommended for campers with allergies or skin sensitivities.

48. New - SPANISH FIESTA - Come and explore the beautiful art, culture and language of Mexico. Curious students will learn Spanish vocabulary words through music and art projects. We will experience las fiestas in Mexico where Piñatas originated and enjoy all of the wonderful foods and games that are played at a fiesta!

49. STAGE DOOR – Enter the world of theatrical production! Learn the art of costume and set design. Under the guidance of our artistic director, we will research, measure, design and create original costumes for the musical theatre productions of “Annie” and “The Legend of Mulan”. Costumes/scenery will be constructed of fabric, paper, foam board, paint and other materials. This imaginative behind the scenes process will bring our production to life and provide an awareness of the importance of stagecraft and design skills to the production. Participants from the theatrical cast are encouraged to join and other non-performers are all welcome!

50. SWIMMING – Get your feet wet with swim instruction at Challenge Camp! We will be swimming at Swimlabs Westchester, a state of the art indoor facility 10 minutes from camp. This unique facility creates the perfect way for new swimmers and competitive swimmers to swim better, stronger, faster and safer. Campers must provide a swim suit, goggles and Ziploc bag. Enrollment is limited. For more information visit http://swimlabs.com/westchester/
Swim Fee: Session 1 - $350, Session 2 - $275

51. TAE KWON DO - Literally “the art of kicking and punching”. Tae kwon do is a martial art that has developed over the course of thousands of years with the earliest records of its practice dating back to 50 B.C. from Korea. It is a highly disciplined art of self-defense, physical prowess, and moral discipline. It is distinguished from other martial arts by its varied and unique powerful kicks.

52. New - THIS LAND IS YOUR LAND - Discover the beauty of Folk and Native Heritage music by learning songs that explore these meaningful times. Have fun singing and learning the historical nature and cultures that inspired songs like Yankee Doodle, I’ve Been Working on the Railroad, This Land is Your Land, Oh Susannah and more!
### Period 1

<table>
<thead>
<tr>
<th>SPORTS</th>
<th>PERIOD 1</th>
<th>PERIOD 2</th>
<th>PERIOD 3</th>
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<tbody>
<tr>
<td>Swimming *</td>
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<tr>
<td>Soccer (4-9)</td>
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<tr>
<td>Tennis (1-4) **</td>
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<td>DJ Jam (3-9) *</td>
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<td>Yoga</td>
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<td>3D Puzzles &amp; Mazes (2-6)</td>
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<td>Bloxels World (2-5)</td>
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<td>Code Central: HTML Java (4-9)</td>
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<td>Computer Simulation (3-9)</td>
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<td>K'NEXplorations</td>
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<td>Lego Mindstorms (3-6)</td>
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<td>Mechanical Marvels (4-7)</td>
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<td>This Land is Your Land (K-2)</td>
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<tr>
<td>Turbo Trucks (1-4) *</td>
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** Tennis not recommended for advanced players

* Bloxels Fee: $60
* DJ Jam Fee: $75
* Fencing Fee: $100
* Hip-Hop Fee: $50
* Pinball Fee: $50
* Pokemon Fee: $25

* Printing the Future Fee: $350
* Raspberry Pi Fee: $75
* Rocket University Fee: $85
* Rocket University 2 Fee: $100
* Swimming Fee: $350
* Turbo Trucks Fee: $200
# Afternoon Challenge Session 2 Options

Current 2018 School Grade Level

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<tr>
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<th>PERIOD 1</th>
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<td>DJ Jam (3-9) *</td>
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<td>Yoga</td>
<td>Ninja Warrior (4-9)</td>
<td>Ninja Warrior (1-4)</td>
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<td>Chess Challenge</td>
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<th>PERIOD 3</th>
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<td>Ugly Little Monsters (2-9)</td>
<td>Art on the Move (K-2)</td>
<td>Pop Art Desserts (2-9)</td>
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<td>Computer Simulation (3-9)</td>
<td>Computer Simulation (3-9)</td>
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<td>Dungeons &amp; Dragons (3-9)</td>
<td>Magic: The Gathering</td>
<td>Pokemon TCG *</td>
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<td>Lego WeDo Robotics (1-4)</td>
<td>Lego WeDo Robotics (1-4)</td>
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<td>Digital Comics (1-4)</td>
<td>Digital Comics (1-4)</td>
<td>Spanish Fiesta (K-2)</td>
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<td>Code Central: HTML Java (4-9)</td>
<td>Code Central: Python (4-9)</td>
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<td>3D Puzzles &amp; Mazes (2-6)</td>
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<td>Stage Door (2-9)</td>
<td>Secret Garden (K-3)</td>
<td>Marvelous Mosaics (K-3)</td>
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<td>Arduino Applications (4-9) *</td>
<td>Bloxels World (2-5) *</td>
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<td>Iron Chef (3-9) *</td>
<td>Curious Chef (K-2) *</td>
<td>International Chef (3-9) *</td>
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<td>Ukulele Makers (2-9) *</td>
<td>Guitar Jam (2-9)</td>
<td>Drum Circle (2-9)</td>
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<td>Graphic Design Studio (3-9)</td>
<td>Pinball Wizards (3-9) *</td>
<td>Brickfilms Lego Animation (3-9) *</td>
</tr>
</tbody>
</table>

** Tennis not recommended for advanced players
** Cooking not recommended for campers with food allergies or dietary restrictions
* Cooking Fee (per class): $90
* Arduino Fee: $75
* Brickfilms Fee: $25
* Bloxels Fee: $60
* DJ Jam Fee: $75
* Fencing Fee: $75
* Hip-Hop Fee: $50
* Pinball Fee: $50
* Pokemon Fee: $25
* Raspberry Pi Fee: $75
* Rocker University Fee: $85
* Rocker University 2 Fee: $100
* Swimming Fee: $275
* Turbo Trucks Fee: $200
* Ukulele Makers Fee: $75
53. TURBO TRUCKS– How would you like to race a remote control truck on the Challenge Speedway? In this class you will have the chance to race a fully ready Traxxas Rustler known for fun and durability and with more power, smoother control, better grip, and performance that makes it one of the fastest electric trucks available. Race around outdoor courses that you design with cones, ramps and more. Campers will take home their car/equipment in this action packed driving and racing class. With Traxxas’ exclusive waterproof electronics, your Rustler can blast through dirt, puddles, mud and even snow, your R/C adventures are limited only by your imagination. See your car at https://traxxas.com/products/models/electric/37054-1-rustler

Enrollment is limited. 
Truck Fee: $200

54. New - UGLY LITTLE MONSTERS - This creative class introduces campers to the timeless art of sewing and encourages imagination and fun. Learn to sew with a kit including everything needed for several projects including a monster with your own voice message. Quick learners can complete a fully self designed stuffed ugly monster pillow!

55. New - UKULELE MAKERS - The popularity of this simple instrument has grown exponentially in recent years. You can regularly hear Ukulele on many of today’s popular songs. We will have a great time building and decorating our very own ukulele while learning how to strum chords and play songs. Campers select the songs they wish to play as well as exploring some standard favorites like “I’m Yours” and “Somewhere Over the Rainbow.”
Ukulele Fee: $75

56. YOGA – Learn to relax and let go of control by experiencing the power and concentration found in yoga exercises. While stretching is certainly involved, yoga is really about creating balance in body through developing both strength and flexibility. This is done through the performance of poses or postures, each of which has specific physical benefits. Proper exercise clothing required: loose pants, T-shirt a yoga mat.

How to Register

Challenge Camp is a unique program for bright, curious children. The Challenge Camp advantage is that you and your child customize a program of selections based on your child’s interests and the students follow their course selections for an entire session. As many of our courses are project based, you will see your child’s knowledge and interest grow throughout the session. Students attending the Morning Workshops select both a 9:00 and a 10:30 offering for their current grade level. Students attending the Afternoon Challenge will select either enrichment options or sports offerings for their age group for each of the 3 periods. Full day students make selections for all five course periods. Between the hours of 12 – 1pm, full day campers will have a hot lunch provided by Five Star Catering and an outdoor recess period full of organized games and play. Please select courses for your child based on their September 2018 grade level. For new participants it is necessary that a letter from the school district in which the child is currently enrolled accompany or follow the registration form. The letter must indicate that the child has been identified as gifted, talented and/or an accelerated learner.

Challenge Camp Online Portal

You can now register for Challenge Camp online! Challenge Camp has partnered with CampDoc to provide the best possible service and care to our camp families. The preferred registration method is via our Online Portal:

http://app.campdoc.com/register/challengecamp
Child’s Name: ____________________________________________ M  F
Parent/Guardian’s Name: ____________________________________________
Address: ________________________________________________________
Town/City: ____________________ State: ______ Zip code: ________________
Home Telephone: (___) __________________ Cell: (___) ___________________
E-mail (Mother): ____________________________________________________
E-mail (Father): ____________________________________________________
Place of Employment: Mother ______________________ Cell phone: __________
Place of Employment: Father ______________________ Cell phone: __________
Child’s Birth Date: ___/___/____ Age: ________ Current Grade: _________
School: ____________________________________________________________
Previous Challenge Experience: Yes ☐ How Many Years? _____ No ☐
If Parents Cannot Be Contacted
In case of Emergency Contact: ____________________ Telephone: __________
If parents cannot be reached in case of medical emergency, consent is hereby given that the student receive medical and/or surgical care as recommended by physician or hospital.
Signature of Parent/Guardian: _________________________________________

Registration Check List:
1. Enclosed letter of recommendation for new campers ☐
2. Referred by: _____________________________________________________
3. Transportation Option: ☐ New York City ☐ Westchester
4. Your child will receive a complimentary T-shirt. Please indicate preferred size:
   Child size: S ☐ M ☐ L ☐ Adult size: S ☐ M ☐ L ☐ XL ☐
5. Fees: Deposit $1,000 + Materials Fees
   Program Selections: $____________ Initial Payment: $________________
   Material Fees: $________________ Balance: $________________
   Early Morning/Extended Day: $________
   Transportation: $________________
   Total: $_____________________

Make check payable to: Challenge Camp
6. Mail Registration form to: Challenge Camp
   1250 Central Park Avenue
   Yonkers, New York 10704
   Owned and Operated by the Gifted and Talented Development Center, Inc.
   The preferred registration method is via our Online Portal
   http://app.campdoc.com/register/challengecamp
Registration

Courses Desired

Session 1
Thursday, June 27 to Friday, July 26
(4 weeks)

- Early Morning Arrival: 8:00 a.m.
- Morning: 9:00 a.m. – 12:00 p.m.
- Afternoon: 1:00 p.m. – 4:00 p.m.
- Full Day: 9:00 a.m. – 4:00 p.m.
- Extended Day: 4:00 p.m. - 6:00 p.m.

Morning Workshops:
- 9:00 a.m. Course No. __________
  Title:________________________
- 10:30 a.m. Course No. ________
  Title:________________________

Afternoon Challenge:
Select Afternoon Activities

Period:
- #1. ________________________
- #2. ________________________
- #3. ________________________

Full Day: ❑

Courses Desired

Session 2
Monday, July 27 to Friday, August 16
(3 weeks)

- Early Morning Arrival: 8:00 a.m.
- Morning: 9:00 a.m. – 12:00 p.m.
- Afternoon: 1:00 p.m. – 4:00 p.m.
- Full Day: 9:00 a.m. – 4:00 p.m.
- Extended Day: 4:00 p.m. - 6:00 p.m.

Morning Workshops:
- 9:00 a.m. Course No. __________
  Title:________________________
- 10:30 a.m. Course No. ________
  Title:________________________

Afternoon Challenge:
Select Afternoon Activities

Period:
- #1. ________________________
- #2. ________________________
- #3. ________________________

Full Day: ❑

Questions?

Contact our Office:
Phone: (914) 779-6024
info@challengecamps.com
challengecamps.com
Summer Phone: (914) 721-7307
Course Selection

If you selected Morning Workshops, choose one course for the 9:00 a.m. period and one course for the 10:30 a.m. period. Be sure to select a course that matches your current grade level as of September 2018.

Indicate course selections and retain for your records.

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<tr>
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<th>Session 1 6/27-7/26</th>
<th>Session 2 7/29-8/16</th>
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<tbody>
<tr>
<td>1 Woody's Workshop</td>
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<td>9:00 K-1 10:30 2-3</td>
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<tr>
<td>2 Booms, Bangs &amp; Fizzes</td>
<td>9:00 2-3</td>
<td>9:00 2-3</td>
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<td>3 Art of Science</td>
<td>9:00 2-3</td>
<td>9:00 2-3</td>
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<td>4 Doodlematic Game Maker</td>
<td>9:00 K-2</td>
<td>9:00 1-3</td>
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<td>5 Seussville</td>
<td>9:00 K-2</td>
<td>9:00 K-2</td>
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<tr>
<td>6 Curious George Goes to Camp</td>
<td>9:00 2-3</td>
<td>9:00 K-1</td>
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<td>7 Climate Control</td>
<td>9:00 1-3</td>
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<td>8 Fantastic Beasts and How to Make Them</td>
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<td>9 Math Masters</td>
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<td>9:00 K-1</td>
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<td>10 The Illusionian</td>
<td>9:00 1-3</td>
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<td>16 Gizmos and Gadgets</td>
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<td>18 &quot;The Legend of Mulan&quot;</td>
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<td>27 I Want My Mummy</td>
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<td>9:00 2-4</td>
<td>9:00 5-9</td>
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<td>9:00 3-5</td>
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<td>36 Drone Flight School</td>
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<td>37 Fashion Forward Wearable Tech</td>
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<td>9:00 5-9</td>
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<td>48 Minecraft: Challenge Camp Edition</td>
<td>9:00 5-9</td>
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<tr>
<td>52 Battle Bots</td>
<td>9:00 5-9</td>
<td>9:00 5-9</td>
</tr>
<tr>
<td>53 3D Printing the Future</td>
<td>9:00 3-9</td>
<td>9:00 3-9</td>
</tr>
<tr>
<td>54 3D Printing Unleashed</td>
<td>9:00 5-9</td>
<td>9:00 5-9</td>
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<tr>
<td>55 Counselors in Training (CIT)</td>
<td>9:00 9-10</td>
<td>9:00 9-10</td>
</tr>
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