



STEAMcation is made up of seven weeks of half-day programs for rising 4<sup>th</sup> – 7<sup>th</sup> grade students. With a wide variety of science, technology, engineering, math and art programs, students can mix and match to create a camp experience that is one of a kind! Morning sessions are from 9 AM to 12 PM, and afternoon sessions are 1 PM to 4PM. Those students staying full day are provided a supervised lunch break (optional hot lunch for purchase). Sessions taught by Galloway faculty, unless otherwise indicated.

Registration available at [summeratgalloway.campbrainregistration.com](http://summeratgalloway.campbrainregistration.com). Contact [summer@gallowayschool.org](mailto:summer@gallowayschool.org) with any questions you may have.

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## June 6 – 10

### Morning Sessions

#### **Minecraft Masters with Steve Bartl**

Join Minecraft Mania this summer as we explore and create fabulous Minecraft worlds. Our miners will submerge themselves in a multiplayer world while working together on Project Based Learning projects. Students will learn how to use redstone, pistons, repeaters, and other building materials to build whatever structures their imaginations can create. Let the Building Begin!!! *\*\*\*(students will be provided with a computer and Minecraft player account)*

#### **Paper Lantern Construction with Misao Cates**

Students will spend the week creating 3 different paper lanterns. We will begin with decorating a round paper lantern that will help us get used to designing and working with paper to create a colorful lantern that can be taken home to use in your room. For our second project we will make a lantern hat by building a simple frame with paper walls onto

a hat base that will be decorated and installed with lights to make an ultimate wearable statement piece. And finally, we will make a lantern from scratch by building a frame in a fun shape to make a custom lantern. At the end of the week you will be all set to march in the annual Beltline Lantern Parade!

### **Mechanical Engineering with Engineering for Kids of East Atlanta**

In Mechanical Engineers: Missions & Mechanics of Mars Rovers, the students will explore how NASA's Mars Rovers safely land at carefully selected sites on the surface of Mars to conduct scientific investigations! The campers will investigate the anatomy, tools, and technology the rovers are equipped with to examine how their work deepens our understanding of the Red Planet. Utilizing the Engineering Design Process, the campers will engage in exciting, hands-on STEM challenges with real-world connections to NASA and mechanical engineering.

### **Mythbusters with Joanna Baxter**

Inspired by the popular TV show, students will discuss some well circulated myths and then facilitate some experiments to conclude if they are based in fact or are in fact a myth! Lots of hands on projects in this creative program.

## **Afternoon Sessions**

### **Roblox Mania with Steve Bartl**

Join Roblox Mania this summer as we explore all the exciting games in Roblox. Students will be able to join games with other campers and enjoy gameplay and unlimited adventures. Games will be chosen by staff and students alike. Problem solving and teamwork will be the focus of the selected games. *\*\*\*(students will be provided with a computer and a Roblox account)*

### **Trouble in Fairy Wood with Synchronicity Theatre**

Join a group of bored fairies as they play tricks on their human counterparts in "Trouble in Fairy Tale Wood," as we explore how small things can easily escalate to a "war" when neither party is willing to back down from the path taken. Actors will work together to bring the script to life while learning audition techniques, character development, ensemble play, and more, culminating in a final presentation for friends and family.

### **Tiny Library Construction with Liz Whalen**

Students will learn basic construction skills to design and build their own tiny library. Sawing, hammering, painting, and more will happen over the course of the week. This will be a hands-on experience with a strong focus on safety and best practices with tools.

### **Duct Tape Survival with Joanna Baxter**

You're stuck in the wilderness and only have duct tape to create what you need to survive! This week-long program will stretch that creative muscle as students problem solve different scenarios both individually and as a group utilizing only duct tape as their life-saving tool.

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**June 13-17**

### **Morning Sessions**

#### **Claymation with Steve Bartl**

Come explore the world of animation!!! In this program, students will learn how to create animated movies using stop motion techniques. Using 4 simple tools: a camera, a tripod, iMovie software, and their imagination, our young filmmakers will make clay and other objects come alive!! Students will be exposed to storyboard techniques, scriptwriting, set design ideas and more.

#### **Robotic Mission to Mars with Engineering for Kids of East Atlanta**

In Robotic Missions to Mars, students will learn about NASA's robotic missions to Mars and the important role robots play in advancing our understanding of the Red Planet and paving the way for human exploration. Students will engage in hands-on robotic engineering challenges and learn to program their robots to perform a variety of scientific missions. Finally, we'll have the opportunity to apply both creativity and imagination to build upon and evolve their basic designs and programs presented.

#### **TikTok Dance Intensive with Erik Brown of Endigo Dance**

With a focus on jazz and hip hop, dancers learn popular TikTok dances, and also learn how to create and utilize successful TikTok posts. Students will learn to think outside the box to create innovative choreography while also boosting self-esteem via their final performances.

#### **Gallowarts with Joanna Baxter**

Ever wanted to be a witch or wizard? Well now's your chance! Come have a magical experience as you are sorted into a house, make your own wand, learn spells, create potions, and more using a little science with a splash of art.

## Afternoon Sessions

### **Coding from Scratch with Steve Bartl**

Students will take an adventurous journey to learn programming and coding using the world-famous Scratch visual programming language, a project developed by the MIT Media Lab. The Scratch programming language is a great stepping stone to learning how to program using its drag and drop event driven programming.

Even though this camp is a programming camp, this course is highly interactive and allows students to have lots of fun while learning programming in a creatively flexible environment. This week is recommended for novice programmers.

### **Got Game? with Joanna Baxter**

Come learn about all different types of indoor and outdoor games from around the world. These will include card games, board games, outside group games, etc. Then we'll put our minds together to collaborate on a new, one of a kind, game!

### **Woodworking: Giftmaking with Liz Whalen**

Students will learn basic construction skills to design and build gifts for friends and family members. From cutting boards to desk organizers and couch organizers students will create at least three projects that will be ready for a bow to be gifted (or kept for their own use!) Students are encouraged to bring their own ideas of things they want to create. This is a hands-on experience with a strong focus on safety and best practices with tools.

### **CANVA Comics with Museum of Design Atlanta**

Heroes! Monsters! Talking cats and everyday underdogs! Do you love the way that characters of all kinds come to life in comic books, webcomics, and graphic novels? Join the Museum of Design Atlanta (MODA) for digital comic making! In this program, you'll combine storytelling and design skills to create your own digital world and bring it to life. All required materials provided.

Students will:

- Learn what makes comics come alive
- Develop characters and the worlds they inhabit
- Create storyboards
- Illustrate their stories and bring them to life
- Learn to use a free software, Canva, to create comics
- Share their work with one another

## June 20-24

### Morning Sessions

#### **Roblox Mania**

*See June 6<sup>th</sup> week for description*

#### **Ladies in Lab Coats with Julie Hleap**

A fun theme for budding young lady scientists who like trying a lot of experiments and who don't mind a little mess. We'll use all sorts of ingredients to mix, measure, combine and react in different ways. Get ready to get ooey, gooey and slimy and explore anything that goes fizz, glop, bubble, or pop! Favorite projects include silly slimes, elephant toothpaste, geysers and volcanoes (in miniature of course!), and colorful bath bombs and bath salts.

#### **Drawing Comics with Museum of Design Atlanta**

Drawing, creative writing, and character development teach skills beyond basic arts like sequencing, and creative and critical thinking. All while having fun, of course! This week we will explore different styles of comics like Anime and Manga as well as vast worlds including the Marvel and DC Universes. Drawing inspiration from these and using prompts and activities, students will develop their own characters and story lines creating their own comics by week's end!

Camp is facilitated by Comics Creation teachers and comics artists. Camp features:

- drawing and sketching ideas,
- writing story outlines,
- character creation,
- brainstorming,
- focusing creative thoughts,
- creating basic plots to fit their worlds.

\*Note computers are not used this week. If interested in creating digital comics, look for our CANVA Comic offering during June 13-17.

#### **STEAM Bling with Seanna Jimmeh-Bryce**

Science + Design combine in this fun program as students create their own unique wearable art. If your student likes all things that sparkle, this week is for them!

## Afternoon Sessions

### **Minecraft Masters**

*See June 6<sup>th</sup> week for description*

### **Artist Drawing Studio with Spunky Arts**

A week of ARTFUL fun! In Artist Drawing Studio, students will incorporate drawing, painting, comics, collage, and more! We'll balance classic arts education with loads of creativity and a touch of whimsy to introduce new concepts and practice some old favorites. We'll explore tools like charcoal, pastels, and maybe even dabble in some clay.

Drawing improves fine motor skills and handwriting. This program offers daily drawing lessons and projects led by artists and teachers, both gross motor and fine motor skills practiced each day, as well as, daily movement like art scavenger hunts and large group projects, as deemed COVID safe. All supplies included.

### **Aerospace Engineering: NASA with Engineering for Kids of East Atlanta**

In Aerospace Engineers: NASA focus, the students will examine the anatomy of various orbiters and landers to gain a deeper understanding of how they assist in the work of NASA's scientists and engineers. Students will learn about the technology and innovation that is required for aerospace engineers so we can, one day, safely transport human beings to the surface of Mars. Students will use the Engineering Design Process to engage in exciting, hands-on STEM challenges with real-world connections to NASA and aerospace engineering.

### **Gross Academy**

Get your hands dirty and hold your nose! This hands-on program will combine anatomy, physiology, and chemistry to help better understand the way your body works. Make fake blood, discover how sugar causes cavities, and find out why we burp. You'll have your adults saying- YUCK!

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## June 27 – July 1

### Morning Sessions

### **Kleki Digital Art with Steve Bartl**

Digital Paint? Digital Crayons? Students will explore their artistic side using digital tools to create wonderful pieces of art. Using digital painting programs, we'll draw self-portraits, landscapes, cartoons and much more. Will your student go viral with their created GIFS and Memes? Join us to explore the wonderful world of digital art.

### **Urban Heat with Trees Atlanta**

An urban heat island, or UHI, is a metropolitan area that's a lot warmer than the rural areas surrounding it because of all of the people, cars, buses, and trains in cities. Urban forests help reduce the intensity of the UHI. Dive into UHI with Trees Atlanta to discover what causes the UHI in Atlanta, perform science experiments to collect our own data, and come up with ways to keep our city cool. Hint: Plant more trees!

*Students should plan to bring wheels for the week - bike or scooter. This program will venture out and about, exploring Chastain Park and wooded areas directly adjacent to Galloway's campus.*

### **Mindfulness & Media with Lane Hunter**

What lessons can we learn from our favorite shows? We'll explore Avatar: The Last Airbender, The Legend of Korra, Steven Universe, The Dragon Prince, and She-Ra this week.

Each day will feature a lesson/discussion centered around a moral concept found hidden within a TV show - think learning to have empathy, accepting people who are different from us, having kindness even when it's tough, etc.

We will start each day with a Morning Movement activity followed by a mindfulness prompt that ties to the lesson. Students will wrap the day with a related game and/or arts and crafts project that ties into the day's lesson.

### **3D Sculpture Studio with artist Alexis Vear**

In 3D Sculpture we'll do our best to broaden our student's ideas of what sculpture is by using a variety of sculpting materials for our projects, including clay, wire, paper mache, air-dry clay, polymer clay, fibers, found objects, and more!

## **Afternoon Sessions**

### **Unconventional Engineering: Wood with Steve Bartl**

What to do with a popsicle stick? A toothpick? Join this collaborative, hands-on program to apply engineering techniques using only wood products. Students will be provided with real life problems and then have to use their "engineering" skills to design and build the solution. Students will also have opportunities to engineer their own inventions. Join us to learn more about engineering and how it can be used to solve real life problems.

### **Priceless Painting with artist Alexis Vear**

Students will explore acrylic painting in many different styles including abstract, realism, Impressionism as well as focus on finding their own style. Work will be created on stretched canvas ready for hanging. The students love sharing their masterpieces at the conclusion of the week.

### **Music Jam Session with Lane Hunter**

Students of all musical levels will learn basic foundations of music across different idioms, including but not limited to note recognition, learning how to find the beat, and basics of playing drums, auxiliary and mallet percussion, keyboard, and piano. We will also play musical games, timing games, dancing games, and basic music theory games.

As a goal for the end of the week, we will create a multi-media song to perform together at the end of the program! This song will be flexible and will depend on how many students we have registered and where their strengths and interests lie - it could be as simple as something we sing together or as complicated as different students playing different instruments all together, maybe with some motions or dancing as well.

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## **July 11-15**

### **Morning Sessions**

#### **DIY Studio Art with Steve Bartl**

Students will be guided through arts and craft projects such as, DIY robot hand, printing with styrofoam, pop-up books/birthday cards, jewelry, and much more. Students will also be encouraged to seek out and create their own projects. Students will have access to a wide variety of materials to create their wonderful creations!

#### **Pollinator Team with Trees Atlanta**

"To make a prairie, it takes one clover and one bee, --One clover, and one bee. And revery. The revery will do, it bees are few." - Emily Dickinson. This week, you can join Trees Atlanta to follow and observe the path of pollinators. As we observe these creatures in their natural habitat, we will learn how important they are to our urban forest as well as to the food that we eat.

*Students should plan to bring wheels for the week - bicycle or scooter. This program will out and about, exploring Chastain Park and wooded areas directly adjacent to Galloway's campus.*



### **Math Alive! with Roy Lander**

In this class, math will come alive as students will use the Galloway campus as a resource to answer math questions and without realizing it, to do some great math! For example, is there a way to calculate the total weight of the books in the Galloway library? How do we calculate the number of seats in the Chaddick theater? How big are the lockers in Middle Learning? How many 2x2 LEGOS would be needed to cover a laptop?

## **Afternoon Sessions**

### **Unconventional Engineering: Paper with Steve Bartl**

Paper bridges? Paper skyscrapers? Join this collaborative, hands-on program to learn engineering techniques using only paper products. Students will be provided with real life problems and will have to use their “engineering” skills to design and build the solution. They’ll also have opportunities to engineer their own inventions. Join us to learn more about engineering and how it can be used to solve real life problems.

### **Lego Architecture with Roy Lander**

Students will use LEGOS to enjoy free play at the start of each class as a way to brainstorm their work that follows. Students will then use LEGOS, cardboard, straws and popsicle sticks to construct their area of a future city or to construct a tiny home park. Together, we’ll finish with an entire community build.

### **Checkmate Chess Masters with Chess2Children**

Join Chess2Children for another fun, engaging and entertaining week of summer chess! Our chess scholars will learn the game, improve their game and/or master their game. Our AMAZING coaches are able to mix up the days with instruction, tactics, games, video’s, movies, and much more! Chess continues to be in the conversation! Movies, TV shows, Business Exec’s and more are talking about learning and playing the game for life. There is no better way to learn strategy, cause & effect than immersing your scholar into chess and seeing how their mind evolves.

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## **July 18-22**

## **Morning Sessions**

### **Cardboard Engineering with Steve Bartl**

Yes, that is correct: a cardboard summer camp! We will be using cardboard to build whatever our students can imagine and that is A LOT! From big to small, cardboard can be an awesome medium to explore your student’s passions, from forts, model homes, arcade

games, costumes, the sky's the limit. This exciting DIY camp will help strengthen their engineering and collaboration skills as they build awesome items out of cardboard.

### **Silly, Slimy, Soapy, Science with Julie Hleap**

Mix it, make it, and take it home! Our young scientists become slime and soap specialists for the week as they learn about soothing, fizzy and smell-good ingredients and how to make them.

### **Comedy News Filmmaking with MOBAC Productions**

During our Comedy News Show, students will create a news/ entertainment TV show consisting of different entertainment segments, interviews, and news topics (think Saturday Night Live's news segment). The students will be trained on camera operations, lighting, and directing to later produce different segments for their news show with a

### **Repurposed Fashion Design with Fashion Workshops LLC**

Our young fashion designers will learn how to transform and recycle garments into newly constructed items. Students will have the opportunity to experiment and create real garments, skirts, bags, pillows and a t shirt quilt while learning how to sew on a sewing machine. This is a great program to learn basic sewing skills while expressing individual creativity. Bring all of your recycled clothes and let's create!

## **Afternoon Sessions**

### **Extreme Paper! with Steve Bartl**

Paper Planes? Origami? Join us in this hands-on paper summer program. Students will explore their "paper" side in creating paper airplanes, origami, 3D models, paper mache to name a few. In this week, we'll explore all the cool things you can create using only paper. We will even make paper! If they can imagine it, they can construct it.

### **Entertainment Design & Engineering with Engineering for Kids of East Atlanta**

Ah, the thrill of an amusement park -- zooming through the loops of a rollercoaster, trying your luck at exciting games, and so much more! This week we'll explore engineering amusement park thrills, while also dabbling in marine engineering, mechanical engineering, and chemical engineering. Students will design and build prototypes of games and rides for the ultimate theme park. The students will divide into competitive theme park teams and compete in specific engineering-related contests with the goal of creating the most fantastic and thrilling theme park experience!

### **Podcasting 101 with Museum of Design Atlanta**

Do you love listening to podcasts and feel that you and your friends are ready to create your own? Join MODA for Podcasting 101. In this program, students will design their own short episodes to share your unique perspectives on issues from the personal to the global. All required materials provided.

Students will:

- Learn what makes some podcasts great and others fade to the background
- Practice using a free digital sound editing software called Audacity
- Practice skills like interviewing, writing, and editing
- Strengthen mindsets like empathy, collaboration, and resilience

### **Textile Exploration with Fashion Workshops, LLC**

Ever wondered how a specific fabric or pattern is created? In this program, students will learn how fabrics are designed and created and go home with fabric that they have designed!

During the week, students will engage in workshops on dyeing, distressing, applique, crochet, weaving, stamping and painting. Students will also learn how to use a sewing machine and how a machine and hand sewn techniques can be used to change fabric surfaces.

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**July 25-29**

**Morning Sessions**

#### **Minecraft Masters**

*See June 6<sup>th</sup> description*

#### **Lin Manuel Dance Intensive with Erik Brown of Endigo Dance**

Students will explore the music of Lin-Manuel, learning a dance for a song in *Hamilton* and finding inspiration in the music of *In the Heights*, *Moana*, *Mary Poppins II*, *Encanto*, and *Vivo* to create new choreography.

#### **Detective Science**

Get out your magnifying glasses and detective hat as we have clues to decipher and crimes to solve. We'll put our critical thinking skills and STEM knowledge to the test and get to the bottom of mysteries by learning the tricks real investigators use to solve cases.

While experimenting with simple detection techniques, your reasoning skills will grow and your problem-solving skills will become better than CSI agents'.

## Afternoon Sessions

### Roblox

*See June 6<sup>th</sup> week description*

### The Missing Starlet with Synchronicity Theatre

Annie Coquette has gone missing right before the director needs her for her most important scene. Who has kidnapped her, and what was their motive? The detectives have called the cast and crew to the film set to try and get to the bottom of things. Our young actors will have a blast developing suspicious movie set characters and learning improvisation techniques through this interactive mystery, all working towards a final showdown at the end of the week for friends and family to witness. Can you solve the mystery before it's too late?

### E-Sports Exploration with Engineering for Kids of East Atlanta

Make it an EPIC Summer with Esports: Rocket League Edition! Students have the opportunity to play prototype arena layouts in the Rocket Labs mode with a virtual reality-inspired aesthetic. This will give players the ability to explore a variety of arenas. Students will learn how everything in-game relates to the real world through physics, aerodynamics, and more! Throughout the week, the students will work in teams and compete against each other in a series of matches to progress to the final tournament.