



Session I: Academic Enrichment

Week of June 6th

Science Theme: Roll...Roll...Roll Your Boat!

Students will learn how to create and design a raft. It must be stable, and can sustain the weight of their team as they go down the Chattahoochee River. Either they will sink or swim down the river! Students will learn about transportation systems engineering. The program will move beyond simple scenarios, with designs and programming inspired by creativity, physics, and earth science.

Math Enrichment: Building a Bridge

Students will learn that bridges categorized into three primary types: suspension, beam, and arch; and each is designed and built according to certain principles of engineering. Students will research and investigate how these engineering principles are used in the design and construction of other structures. They will be introduced to a computer assisted drawing "CAD" program that will reinforce the effects of balanced and unbalanced forces on an object's motion. The math principles presented will be multiplication, fractions and geometry. They will have to build a bridge model out of Popsicle sticks!

Field Trip: Friday, June 10th Rafting down the Chattahoochee River—Shoot the Hooch

Week of June 13th

Science Theme: A Mind of Design and Imagination---DC Comics and Marvels Artist

Students will learn how to create and design various imagines, storyboards, and other digital arts in ADOBE to create their own Comic Book. Our instructors will introduce a comprehensive course and teach our students how to become graphic artists and creative design specialists. The course has various levels from beginners to advance artists. Students will be placed and taught based on his or her skill level and knowledge!

Math Enrichment: Architecture: Explore the World of Designing Buildings

Have you ever wondered what it is like to be an architect? To design the buildings that we all live in? Join us as we explore this exciting profession in a camp run by a Georgia Tech instructor and Atlanta architect. We'll work with the College of Architecture Design Studio officials, drawing and building intriguing towers and homes. We'll also visit imaginative new buildings on campus, and observe a Georgia Tech student drawing class. Campers will leave with an understanding of the role of creativity in architecture, and with a design project to take home.

Field Trip: Friday, June 17th: Top Golf Midtown

The Ultimate in Golf, Games, Food, and Entertainment. Students will enjoy a day playing high technology golf!

Week of June 20th

Science Theme: Is it a **Car, Space Ship, Robot...What is going on?** Robotics & Transportation Systems Engineering

Students will push the boundaries of modern transportation, and learn about transportation systems engineering, and incorporate STEM concepts to build their own miniature cars. The program will move beyond simple scenarios, with designs and programming inspired by new technologies.

Special Event: WNBA Atlanta Dream vs. New York Liberty (Kids Day) Wednesday, June 22nd 12:00pm @ Philips Arena

Math Enrichment: The World of Money...Learn How to Create Them

Students are introduced to the world of finance and how money moves throughout the world. They are exposed to financial literacy, investing, hedging and trading. The curriculum includes personal finance, and wealth building. Student will develop an understanding of investment strategies that builds financial security through learning derivative securities and the mechanics of trading stocks, bonds and other securities. Students are taught how to read 10-K reports, financial charts, how to place market orders, and how the major markets operate. The students will spend the week constructing and analyzing their own portfolios using state-of-the-art analysis and trading tools.

Field Trip: Friday, June 24th: Fast and Furious—GENUIS Style—Andretti's Indoor Karting & Games

Andretti Karting is your one stop destination for fun. Students will enjoy racing with go karting, simulators, video games, and more!

Week of June 27th

Science Theme: LEGO...Mindstorms—Explore the Possibilities

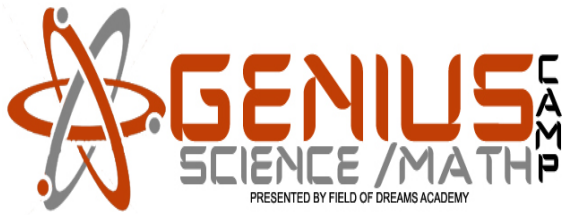
Robotics...Technology...Automation.... Students will explore and apply physical science and mathematics concepts through programming and team challenges using LEGO Mindstorms robots. Students will design and build a robot (s) for their new city and that solve real-life challenges. **Students must have taken LEGO Mindstorms I or have prior experience with LEGO EV3.**

Math Enrichment: Don't Just Play Video Games...Learn How to Create Them

Students will learn how design video games, develop apps for iPhone® and Android™, model 3D characters, mod with Minecraft, and more. They will get fully immersed in technology by competing in gaming tournaments, touring a game design studio, creating a cutting-edge college portfolio, and interacting with industry professionals.

Field Trip: A Day of Exploration—July 1st An action packed day at Six Flags, as students enjoy all of the rollercoasters, and other amusement rides and activities!

****Schedule is subject to change***



Other Special Events or Activities:

Students will sit in and observe various college classes from Physics, Chemistry, to Engineering. They will have an opportunity to meet the professor and students.

Students will need to have his/her own computer tablet—iPad, Windows Surface other tablet device.

Every Tuesday and Thursday: Student will go swimming at the Piedmont Park Aquatic Center

Field Trip (s): Every Friday, student will have a field trip plan from movies, museum, skating to Six Flags. Each field trip will have a minimal cost associated to cover the student's admission.

Our goal is to present an exploratory learning session where each camper develops and enhances his or her critical and analytical thinking skills. We want to develop the next generation of scientists, engineers, inventors and leaders from our community.