



SESSION II AM

Chain Reaction Contraptions Session II AM

Explore the engineering process by asking questions, planning, building, creating, and analyzing. Learn to generate multiple creative solutions to a problem as you build a wacky chain reaction machine. Create a slow-moving marble run. Build a machine that will make something happen. Connect the marble run to the contraption. Connect the contraption to another one for a multiple chain reaction. Make your machine do work in the most simple-complicated way possible. Use the principles learned to create other machines or mechanical games. Be prepared to plan, build and tinker as you create chain-reaction contraptions.

Lab Fee: \$5:00

Instructor: Melissa Milius, Elementary, Fulton Public Schools

Engineering Exploration Session II AM

Innovations by Engineers are a main driving force for many technologies, medical, agricultural, social advancements. Engineering Exploration is going to introduce and give a brief overview of different types of engineering career fields while trying to solve a variety of problems in the classroom using math, science, and design principles. Design, construct, test, and refine as you find your own solutions to problems in Engineering Exploration.

Lab Fee: \$5.00

Instructor: Tanner Hakert, HS AP Science Teacher, Columbia Public Schools

Great Math Escape! Session II AM

Let's be math rebels! Break out of that tired ol' math class box of rules while we use creativity to PLAY with some pretty wild and crazy problems, strange stories, games, puzzles, and even infinity. The FUN never ends! Bring your ingenuity and your best hunches while we stare down challenges in logic, greedy pigs, probability, preposterous paper creations, Donald Duck, and black holes. Who knew fractions could be FUN? —just toss in some giant Hershey chocolate bars and a room full of your best friends and see for yourself. Rules slow us down, so none of that here— Own your magic, and let's make our escape!

Instructor: Patty Avery, Retired Mathematics, Columbia Public Schools



Shibori Cloth Dying Session II AM

Love to tie-dye? Learn Japanese fabric tie dying techniques called Shibori. During this process learn how to tie and wrap and fold fabric in new ways to create beautiful new patterns with these ancient techniques. Also learn a simple way to stencil an image onto your fabric to make an amazing work of art. We will explore color mixing, tie-dye techniques, how to make a stencil with positive and negative space to create a beautiful and unique wall hanging. Also, bring one white cotton shirt (long or short sleeve) to apply these new techniques to make something wearable!

Lab Fee: \$8.00

Instructor: Traci Bolda, HS Art Teacher, Columbia Public Schools

Sphero: A Look at Robotics

Session II AM

Calling all robot-lovers! Sphero is a robot designed to inspire you to explore, learn, and put your creativity to the test. This robot's "brain" gets instructions from a program you will write that is like a real-life app you could find in the App Store. Program the Sphero to bowl, navigate a maze, and learn a variety of tricks through simple coding. Roll your sleeves up and get a hands-on learning experience while exploring the world of science, technology, engineering, math, and of course creativity! The only limitation is your imagination. Take your new-found knowledge home to your friends and blow them away with your new, groundbreaking robot-skills!

Lab Fee: \$5.00

Instructor: George Yates, Computer Science Teacher, Fulton Public Schools



Vet for a Week

Session II AM

In Vet for a Week learn more about Veterinary Medicine and explore varied career opportunities and important topics within the profession. Engage in interactive hands-on learning, and field trips as you explore the fields of animal and vet science. Build your vet skills as you practice injections and suturing. Delve into veterinary medicine where you'll be surrounded by other CK friends who share your passion for animals, health, and science.

Lab Fee: \$10.00

Instructor: Karen Hirst, Art and Science Teacher High Point Schools

Visit the Galapagos Islands!

Session II AM

Become travel agents as you research these unique islands. What is there to see and do? Who lives on the Galapagos Islands, what are the people like? We will explore the language, culture, and rich wildlife, which includes many rare and endangered species. Charles Darwin visited in 1835, his observation of Galapagos species later inspired his theory of evolution. Why did Darwin choose this island? Does this theory still stand today? Come join with us to investigate 127 islands of Galapagos. There are different ecosystems on the islands, and lots of history with pirates, unique animals, and so much more. What would this vacation cost? Would it be possible to retrace Charles Darwin's steps? Which of the 3 islands would be the best to visit? What are the best things to do for a family traveling there? What would you recommend for your customers to visit while they are vacationing on the Galapagos Islands?

Lab Fee: \$5.00

Instructor: Melanie Studer, Retired Teacher, Author/Educational blogger

Whose Line is it Anyway?

Session II AM

Whose line is it anyway is a comedy show spotlighting a series of spontaneous, improvised sketches. Telling jokes and sharing comedy on stage is an art. Practice the art as you play theatre games and try improvisation. Learn secrets from some of your favorite comedians. Use your creativity to bring your personality and sense of humor to stage. Try your hand at a variety of comic styles. Practice standup, storytelling, group scenes and comic strips. No experience necessary! If you love to laugh and are willing to be wacky, this is the class for you!

Instructor: Greg Irwin, AP History, Columbia Public Schools



Wilderness Survival Challenge

Session II AM

Educate yourself in outdoor survival techniques. The first basic requirement of survival is shelter. Work as a team to build a dependable shelter. Another critical survival skill is to create a fire. Find and select the best sources of wood and learn multiple techniques of fire starting. The next wilderness survival requirement is finding sources of safe food and water. Discover edible plants, recognize poisonous plants, and track animals. Understand how to procure safe drinking water. Work with fellow outdoor enthusiasts to avoid disaster as you work through real-life scenarios of survival. Equip yourself to survive wilderness challenges.

Lab Fee: \$5.00

Instructors; Jamie and Ron Danuser, Missouri School for The Deaf

You've Got the Beat

Session II AM

You've Got the Beat will challenge you to hear rhythms in the sounds of everyday life by using your minds and transform your vision to see musical instruments in everyday objects such as trash cans, sticks, metal pipes and different size buckets. Join your CK friends to create a CK street drumline! Turn the rhythms into a conglomerate of magical sounds, create songs and become street performers, showcasing our drumline music in downtown Columbia and the CK talent show. The best part is, no musical experience is required, just a love of rhythm. If you have ever wanted to be in a drumline, this is your chance! Check out this video to get an idea of what you will create! Giddings Drumline on Trash Cans <https://www.youtube.com/watch?v=w6OkS1D9EyM>

All are welcome!

Lab Fee: \$5:00

Instructor: Jake Hiley, Instrumental Music, Fulton Public Schools

