

## **CLASSES NEEDED = 8**

### **Africa is NOT a Country Session I AM**

Grab your ticket for a ride to the continent of Africa. There are people and cultures to explore including tribes, beliefs, and symbols of importance. Our safari bus will travel over many regions to search for the over 1000 animals that live on this vast continent. Explore the rain forests, the Sahara, coastal regions, and more! Experience African art that has evolved over the millennia and create your own. Bake mandazi (African donuts), sambusa (African dumplings), chapati (African bread) and more! History and present day will collide as our class travels through time to learn more about this fascinating continent.

Instructor: Melanie Studer, ELA, North Callaway School

### **Capturing Nature in Art Session 1 AM**

If you love being in nature, learning about nature, and making art, this is your class! Spend the week being outside; taking walking field trips, gathering and collecting items to use in creating a field notebook/sketchbook. Work to identify flowers, leaves and other natural mediums. Explore processes with drawing and sketching nature, including creating cyanotypes (aka sun prints) and hand-binding your own book. Look at artists that are prominent with nature as their primary subject! All of our creations and findings are outfitted for you to incorporate into your own hand-made field notebook.

Lab Fee: \$10.00

Instructor: Angela Shaffer, University of Missouri School of Visual Studies

### **Chain Reaction Contraptions Session I 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, Fulton Public Schools

## **Island Curse Session I AM**

Will you conquer the Island or the Island conquer you??? On an island in the Pacific a group of billionaires were genetically engineering cryptids and other prehistoric animals, but something has gone wrong!! The scientists are gone, workers disappeared, and the animals now overrun the island filled with so many unanswered questions! The billionaires are offering a large sum of money for someone to capture the escaped beasts and find out the mystery on the island. This challenge will be different for each one of you as you use your creativity, imagination, and engineering skills to conquer the cursed project and return the animals. You choose the adventure as the curse unfolds!! Research various cryptids, decide and design the best trap and cage, map out the island, and create a choose-your-own adventure story, all while trying to survive the island and its curse!!

Instructor: Cami Webb, Teacher of Gifted, Fulton Public Schools

## **It's Electric Session 1 AM**

Electricity lights our homes, runs our technology and even powers our cars. Learn the basics of electricity as a magical force. Wire a mystery box and challenge your classmates to figure out your electrical system. Assemble a robot while exploring switches, motors and buzzers. Learn what happens when you use different batteries in a circuit or connect two light bulbs in a circuit. Build a scale miniature model of your dream home and light it up using provided materials. Turn an ordinary item into a magnet and take it home to amaze your family. Discover the magic; it's Electric!

Lab Fee: \$10.00

Instructor: Kylie Lane, Fulton Public Schools

## **Not All Heroes Wear Capes Session 1 AM**

"We all wish we had superpowers. We all wish we could do more than we can do."  
- Stan Lee, creator of The Avengers

What is a superhero? What is a supervillain? Throughout history there have been stories of heroes with special abilities who could swoop in and save the day. From mythology to tall tales and folk heroes, to the Avengers, hero stories have always been popular. Stretch your mind and imaginations to the limits as you examine heroes through famous stories, comics/graphic novels, and cinema throughout the age. What special abilities do you have? What would your superpower be, and how would you use it? Create your own superhero, develop his/her story and draw the comic figure.

Lab fee: \$5.00

Instructor: Anna McMillen, High School Counselor, Columbia Public Schools

## **The Sky is the Limit**

### **Session I AM**

Work as engineers to explore the principles of flight and aerodynamics. Construct airplanes, hovercrafts, and helicopters. Build and launch a Viking rocket. Discover what makes things fly and how different types of flying space devices become airborne. Use hands-on investigations to put materials together and explore how your designs can be changed or improved. Choose the most innovative design to compete in an Air Fair on Friday, where the sky is the limit, and students score points for a variety of flight related challenges.

Lab fee: \$5.00

Instructor: Karen Hirst, Teacher of Gifted, Jefferson City Public Schools.

## **Wonka for Hire**

### **Session I AM**

Ever since giving Charlie the Chocolate Factory, Willy Wonka has run out of ideas for new candy to make! Help him out of his funk by creating our own candy factory. Sample candy from around the world. Learn to make candy and the science behind candy making. Study the history and health benefits of chocolate. (Yes, chocolate can be healthy.) Rank your favorite candy bars. Create and make a new candy bar. Design a logo and market your candy bar. (Yes, there will be taste tests every day.) We will eat, read, and learn about all things candy. Become the next Willy Wonka for hire.

Instructor: Mollye Doreing, Fulton Public Schools