



## **SESSION II AM**

### **Adventures in 3D and Virtual Reality**

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Are you ready to create a parkour game? A theme park with a roller coaster? 3D models of Angry Birds? This is the place for you! Welcome to adventures in 3D and Virtual reality! You will create unique VR spaces that are fully customizable and interactive. You will use code to make elements of your space come to life. You will design 3D models in TinkerCAD and use those models in virtual spaces. Be ready to challenge your thinking and creativity! The possibilities are limitless!

Lab Fee: \$10.00

Instructor: George Yates, Elementary Teacher, Fulton Public Schools

### **Ascending Mt Everest**

#### **Session II AM**

*"Mount Everest is the tallest and most famous mountain in the world; a global beacon and metaphor wrapped in awe and mystery." John Branch*

You are a freelance reporter and have been asked by the New York Times to record your experiences when joining a tourist adventure team that will climb Mt. Everest. During your adventure you discover many situations that cause you to ponder whether this form of tourism has a positive or negative impact on the culture and environment of Nepal and Everest. An accident on the mountain may force your thoughts to a particular side. Will your survival impact your moral and ethical judgments? Will you be able to face the consequences of your choices when or if you come back down the mountain?

Re-enact the 1996 disaster on Everest in a simulation. Make dramatic choices, risk survival, and dive into the culture that surrounds this monstrous mountain. Learn what makes this mountain so deadly through scientific experiments, STEM, and live video footage as you ascend Mt. Everest.

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

## **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: Mark Gacia, Elementary Teacher, Hallsville Public Schools

## **Fantastic Fictional Worlds**

### **Session II AM**

Have you ever wanted to fly on the back of a dragon, cast a spell, or travel to an enchanted realm? Although these feats may seem impossible, in the world of fantasy the only limits are your own imagination! Discover what it means to become a hero... or a villain. Develop mythical creatures, create magical worlds and unique characters who live there. Examine popular examples of rich fantasy world-building through literature and film. Aspiring authors and fantasy enthusiasts will have a chance to write, draw, and design creatures in a fantastic fictional world where anything can happen!

Lab Fee: \$5.00

Instructor: Anna McMillen, School Counselor, Columbia Public Schools

## **Great Math Escape!**

### **Session II AM**

Let's be math rebels! Break out of that tired ole' math class box of rules while we use creativity to PLAY with some 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, probability, and create preposterous paper creations. Play with Pi and eat some too (pie). Who knew fractions could be FUN? —just toss in some snacks 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: Jennifer Sirois, Middle School Teacher Columbia Public Schools

## **Illusions and Magic Tricks**

### **Session II AM**

Prepare to enter the enchanting world of magic! Explore the art of magic, learn the secrets behind captivating tricks and illusions. Through hands-on instruction, practice essential sleight of hand, misdirection, and presentation techniques. Develop confidence in performing magic to amaze and delight your friends and family. Hone your public speaking skills, creativity, and ethical principles while fostering an appreciation for the art of magic.

Instructor: Alex Mertzluft Digital Media Teacher, Columbia Career Center

## **Mystical Data Adventures**

### **Session II AM**

Embark on a magical journey where numbers weave spells and data reveals secrets! Step into the shoes of a data wizard, where predicting the future and uncovering hidden patterns is all in a day's work. This week, we'll harness simple tools to gather data about our world and explore fun ways to analyze it. You'll learn to create a variety of graphs and charts, spot trends in everyday numbers and forecast the outcomes of intriguing experiments. Grab your magic wand and prepare to explore the enchanting realm of data!

Instructor: Rebekah Hanak, Former Data Intelligence Engineer Instructor for Marine Corps Intelligence Schools, Middle and High School Teacher, Mathematics Education Doctoral Student, University of Missouri.

## **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: \$10.00

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

## **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: SURVIVOR!**

### **Session II AM**

Learn wilderness survival skills while competing as tribes as on the hit TV show Survivor! Each day, we'll be out of the classroom and into the creeks and wilderness of Columbia, learning hands-on skills and competing in team challenges. You'll learn by doing as we explore the four principles of survival: shelter, fire, food, and water. Learn improvised fire-making and shelter building, identify wild edibles, use a compass, make creek water drinkable, and much, much more!

Lab Fee: \$5.00

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

