

## **SESSION III PM**

### **Debating Philosophy in Scientific Advances**

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One scientific breakthrough can save a world... or devastate it through a thousand unintended consequences! We want YOU to engage the challenges of the most pressing and cutting-edge scientific advances. In a rigorous discussion format that brings the best aspects of debate and problem-solving, tackle the unintended challenges connected to such things as: quantum computing, gene editing, facial recognition surveillance, cloning, driverless cars, artificial intelligence, living decades longer. Debate these ethical scientific and social dilemmas with your CK classmates as we struggle together through the possible practical, legal, and ethical challenges of living in the future. Prepare to challenge CK classmates in an "Ethics Bowl". Learn how to start an ethics bowl team in your school.

Instructor: Tucker Snider, AP English, Jefferson City Public Schools

### **Design with Digital Media**

#### **Session III PM**

Looking to get a little creative? In this course we will use computers to design and publish a variety of digital media -- from animations and videos to personalized websites, printable 3D objects, mobile apps, and even create our own video games! Use technology to consume media and enjoy other's creations. This course will challenge you to start creating your own projects in those same mediums. Get your hands in the "digital dirt" and start making your own creations come to life. Designing with Digital Media is the perfect place to start.

Lab Fee: \$10.00

Instructor: Josh Howard, Media Specialist, Columbia Public Schools

### **Disc Golf**

#### **Session III PM**

What sport combines hiking through gorgeous scenery, the skill of frisbee, the fun of golf and hanging out with your fiends all into one? Disc golf! With the sport booming across the nation, now is the perfect time to grab a disc and try it out for yourself. Disc golf can be played by anyone, of any age, any time! With plenty of disc golf courses all around the world, you're never far from your next round. This class is perfect for beginners and those familiar with the sport alike. Learn the basics of the sport, the rules, the terminology, the types of discs, and how to properly throw a disc. Most importantly, you'll get outside and make some new pals and play disc golf!

Instructor: Ethan Deimeke, CK and Westminster College Grad., Radio Broadcaster, Publicity for the State of Missouri

### **Droning into the Future**

#### **Session III PM**

The unmanned aerial vehicle AKA the DRONE is taking the world by storm! Drones are helping to push the limits of science and technology today. Explore Newton's three Laws of Motion in more depth to discover how the forces of lift, weight, thrust, and drag interact to cause drones to fly. Should drones be allowed to fly on a college campus? Research the history of aviation with drones and debate the ethics of drone technology. Discover what it takes to be certified as a drone pilot. Using your knowledge of rotation, torque, and angular momentum design and build a drone obstacle course and then test your own drone-piloting skills! Come to class ready to drone into the future!

Lab Fee \$10.00

Instructor: Jill Roberts, Science, Blair Oaks High School

### **Gaming Unplugged**

#### **Session III PM**

Tabletop games have been providing people with fun, competitive, social interactions for over 4,000 years. Even in the current digital age of computer and video games, face-to-face tabletop games are becoming more and more popular. Strategic games make the mind work logically and creatively. When working through these games, the mind and brain are practicing problem solving and logic skills. Almost all our strategy games require decision making and high situational awareness. They offer you the chance to try your own tactics and style to organize and execute and defeat your friends. In a world that has gone virtual, let's get back to sitting across the table and challenging both our friends and our minds. Explore games from around the world (Fox and Geese, Dara, Gomoku), classic games of strategy (chess, Othello, Set), new "Roll and Write" games to hobby. It's time to game, unplugged.

Instructor: Ben Schirmer, AP History, Columbia Public Schools

### **Hogwarts and the CK Cup**

#### **Session III PM**

Hogwarts and the CK Cup returns for a second year! Join us as we undertake an immersive and hands on exploration of Hogwarts and the lore surrounding Harry Potter. Bring the world of wizards to life through spell-play, creating relics, potions class, mythology and literature. New studies, creations and house challenges bring new twists and opportunities to the class this year. And yes, there will be Quidditch, wands, butterbeer and the second annual Chalice of Fire CK Cup tournament!

Lab fee: \$5.00

Instructors: Jamie and Ron Danuser, Missouri School for the Deaf

## **Memory Perceptions**

### **Session III PM**

Sensation, Perception, and Memory. How are we able to remember the lyrics to hundreds of songs; but struggle to know our own cell phone number? How does the world look to someone who is colorblind? Do we really perceive the world as it is; or do we miss some details? Join us as we play tricks with our brains to learn how we sense, perceive, and remember the world. Explore the limitations of your memory and practice memory games to expand your ability to remember.

Instructor: Shawna Matteson, AP Psychology and History, Columbia Public Schools

## **Mythologies in World Cultures**

### **Session III PM**

*"History is kept alive by those who remember to tell stories down generations..."*

Why do bizarrely similar epic stories occur over and over again in different cultures of the world? One probable answer is that myths answer questions about the world around us that people do not understand. For example, the Greek, Japanese and American Indigenous people all had similar myths about the rainbow being a link from the gods to humans on earth. Take a look at commonalities in the epic stories from these cultures (along with some Disney, Tolkien, and Percy Jackson). Then, create and illustrate your own mythologies of everyday happenings, divinities, heroes and monsters of the earth, heavens, and seasons. Find your storyteller within.

Instructor: Peter LaMear, Elementary, Stephen's College School

## **Physical and Chemical Changes**

### **Session III PM**

Each and every day, we are observing physical and chemical changes – so what marks something as physical or chemical? Learn about oxidation and reduction reactions. Conduct multiple experiments that create chemical changes. Be amazed by the brightness as you burn magnesium ribbon. From your observations, discuss why some things burn different colors. Dissolve substances for chemical or physical reactions. Learn the concepts behind these changes and their properties. Put safety goggles on and get ready to explore colorful, loud and fun physical and chemical changes.

Lab Fee \$10.00

Instructor: Sarah Laster, AP/Honors Chemistry, Columbia Public Schools

## **Positive Psychology**

### **Session III PM**

Happiness. Isn't this what everyone wants? Aristotle called it Eudaimonia. The stoics thought it would happen if you widened your circle of empathy. According to Epicurus, it would come from maximizing pleasure. Ancient Greek philosophers had a lot to say about happiness, and a lot of thinkers and artists since then have built on those ideas, argued with them, and taken new directions. What do you think? Can philosophy help you live your best life? What role does psychology play in the search for happiness? What does current brain research reveal? If Socrates was right, and the unexamined life is not worth living, then it's high time we got down to some examination. Together with your classmates, define happiness. Debate and discuss the best ideas about how to live well. Find your mental mentors, design your own cannon, and define your happiness.

Instructor: Jonathan McFarland, AP History, Columbia Public Schools

## **Printmaking: Steal, Borrow and Create**

### **Session III AM**

Printmaking is the act of duplication, repeating an image over and over again. Become a printmaker as you design, carve, and print a linocut block. Explore mono-printing techniques and fabric design. Take a look at how printmaking is present in our world today. Use stencils and stickers to leave your tag as you steal, borrow and create new images in this pop culture sensation. Become a CK street artist in Printmaking and Mixed Media.

Lab Fee: \$5.00

Instructor: Carrie Schauwecker, HS Art, Columbia Public Schools

## **Psychology of Human Performance**

### **Session III PM**

*"A strong mind may not win you an Olympic medal, but a weak mind will lose you one."*

*-Sean McCann, Ph.D.*

Learn the basics of how your mind affects your performance. Apply the principles of Sport Psychology to other areas you're interested in – music, theater, public speaking, academics and athletics. Learn how to improve your attitude, reach optimal arousal, develop mental toughness, focus, confidence, self-control, goals, motivation, persistence, resilience, commitment, and "self-talk." Be the best that you can be as you discover the principles of the Psychology of Human Performance.

Instructor: Jon Myers, AP English, Columbia Public Schools