

Fall Learning Labs

Chemical Evidence

When the suspect's office was raided, several forensic agents, traces of a white powder were found on the floor just below the left shoe of the suspect. The powder was examined and determined to be a type of powder used in the manufacture of shoes. The suspect's office was searched and a white powder was found on the carpet. The powder was examined and determined to be a type of powder used in the manufacture of shoes. The suspect's office was searched and a white powder was found on the carpet. The powder was examined and determined to be a type of powder used in the manufacture of shoes.

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What is hidden in the powder?

1. Get a piece of paper and cut it into four equal pieces.
2. Put a small amount of powder on each piece.
3. Add a few drops of water to each piece.
4. Add a few drops of vinegar to each piece.
5. Add a few drops of lemon juice to each piece.
6. Add a few drops of ammonia to each piece.
7. Add a few drops of hydrogen peroxide to each piece.
8. Add a few drops of iodine to each piece.
9. Add a few drops of potassium permanganate to each piece.
10. Add a few drops of sodium hydroxide to each piece.

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Learning Lab Fall 2024

Learning Lab classes are hands-on, high interest enrichment classes for students. Classes challenge students academically and creatively. Students will make new friends while exploring topics in-depth and developing new skills. Class sizes are limited to ensure optimal student/teacher interaction. Excellent teachers are chosen for expertise in their area and their skill working with bright students. **Classes are open to all.**

Learning Lab Dates:

Saturdays - October 12, 19, 26, November 2, 9, 16

Learning Lab Location:

Wydown Middle School, 6500 Wydown 63105

Learning Lab Tuition & Payment:

Classes are \$120/six-week class, payable online or by check.

For More Information: Contact the GRC office at (314) 962-5920 or info@giftedresourcecouncil.org



Class Schedule

SESSION 1: 9:30 - 11:00

Ages 4 - 5	“TINKER” Toys
1 st - 3 rd	Impressionist Era
2 nd - 3 rd	Drawing with Math
2 nd - 3 rd	Mind-Bending Escapes
3 rd - 4 th	Making Movies
3 rd - 5 th	Blown Away
4 th - 5 th	Everyday Electricity
3 rd - 8 th	Checkmate! Advanced
3 rd - 8 th	The Glory of Egypt
3 rd - 8 th	LEGO Mindstorms Robotics: Beginning
5 th - 8 th	Digital Storytelling: Podcasting & Vlogging

SESSION 2: 11:15 - 12:45

K - 3 rd	Checkmate! Beginning
2 nd - 3 rd	Everyday Electricity
3 rd - 4 ^h	Digital Storytelling: Podcasting & Vlogging
3 rd - 8 th	LEGO Mindstorms Robotics: Advanced
3 rd - 8 th	Mess O’Potamia
4 th - 5 th	Drawing with Math
4 th - 5 th	Mind-Bending Escapes
5 th - 6 th	Making Movies

Learning Lab Details

Eligibility: *All children are eligible to participate in Learning Lab classes.* They do not need to be enrolled in gifted programming at their schools.

Dismissal: Children must be picked up promptly at the end of class. If your child has signed up for two classes in a row, he or she will be supervised during the short break between classes, and you will pick up at the end of the second class.

PLEASE COME INSIDE to pick up your child. We will not dismiss children to go outside alone.

Notification: If the class your child signed up for is full or cancelled, you will be notified and given the opportunity to sign up for an alternate class.

Photos: Pictures will be taken of Learning Lab classes, and may be used for promotional purposes. If you do not want your child’s photo used, please contact the office in writing before the start of classes.

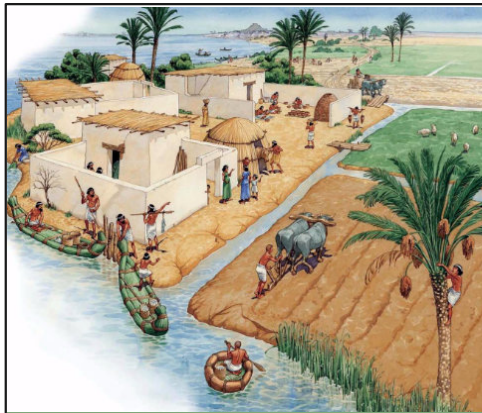


The Glory of Egypt

3rd - 8th : 9:30 - 11:00

Meet the clever, creative ancient Egyptians! Explore the history of the Old, Middle and New Kingdoms. Try your hand at an introduction to hieroglyphs. Did you know there were 10,000 gods of Egypt? How about the concept that every one of them is the boss?? We'll look at the roles of women and children in Egyptian society and then celebrate during the last class with the Feast of Bastet.

Instructor: Art Koenig

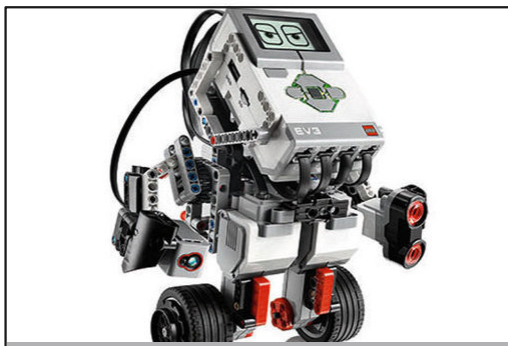


Mess O'Potamia

3rd - 8th : 11:15 - 12:45

Let's examine the origins of one of our oldest known civilizations beginning with city states like Ur and Uruk, and the relationships they developed with others, such as the Elamites, the Mittani, and the Hittites. What was so epic about Gilgamesh, anyway? We'll learn about the writing system used by the region until the invention of the alphabet, We'll conclude with Babylon and the Akitu festival in honor of the god Marduk.

Instructor: Art Koenig



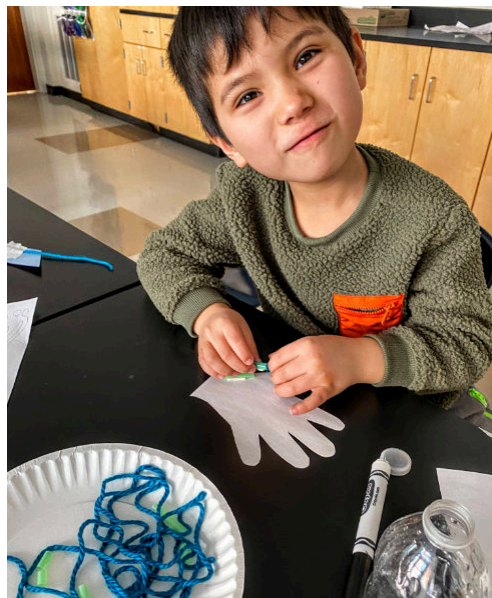
LEGO Robotics

Beginner 3rd - 8th: 9:30 - 11:00
Advanced 3rd - 8th: 11:15 - 12:45

Beginner: Learn the basics of LEGO Mindstorms EV3 robots! Consider a real-world problem, create your hypothesis, program your solution and test your results! Build a rover-type robot to handle some basic tasks and experiment with other features of the kits. Apply the engineering process to your project. Problem-solving skills and creativity using robotics technology prove that the possibilities are endless.

Advanced: If you've taken at least a beginning Mindstorms class, now you can go further! Learn more and work on harder challenges, based on your skill level. Build and program working robots which respond to your commands as well as information from their environments. Working with a partner, you can even design your own robot from scratch! You'll learn to control your creation using multiple sensors, various moving parts, and complex programs that allow the robot to assess its environment and make decisions. You will be given or choose a specific challenge to accomplish with your programming at the beginning of each class.

Instructor: Lisa Hummel



Mind-Bending Escapes

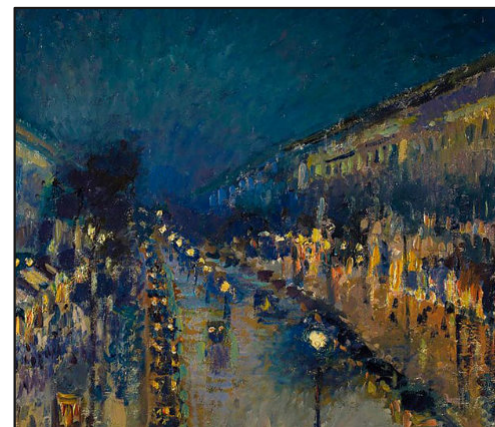
2nd-3rd : 9:30 - 11:00
4th - 5th: 11:15 - 12:45

Sharpen your logical and critical thinking skills as you tackle various escape room challenges. Develop strategies to solve complex puzzles and piece together clues with precision.

Work with fellow detectives in a series of thrilling escape scenarios. Strengthen teamwork skills while racing against the clock to beat the ultimate escape room challenge!

Learn to design intricate puzzles that will challenge the sharpest minds. Can you beat your parents on the last day?? From cryptic codes to devious riddles, discover how to create immersive experiences that leave players on the edge of their seats!"

Instructor: Carrie Ziolkowski

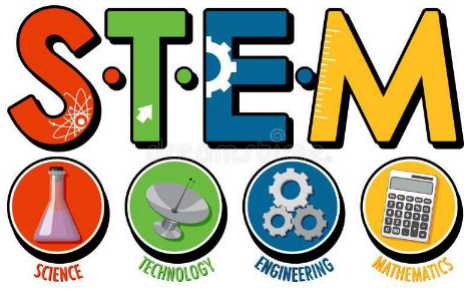


Impressionist Era

1st - 3rd: 9:30 - 11:00

What era are you in right now? How about the impressionist one?! While these paintings may seem very traditional to us today, at the time these artists were real rebels! Learn about a different impressionist painter each week, then create your OWN artwork in that style - works like Cassat portraits with colored pencils, Matisse-inspired paper art, Seurat's pointillism using markers and blending colors, and much more!

Instructor: Liz Bickel



Blown Away!

3rd - 5th grades: 9:30 - 11:00

Using engineering design methods, we're going to investigate a variety of STEM skills and challenges! Design windmills with mechanical engineering while learning about lift, drag and air pressure. Create sails and boats with marine engineering and explore buoyancy. Craft the perfect parachute with aerospace engineering (looking at potential & kinetic energy, plus gravity) and see if your egg survives a fall.

This class will culminate with your own personal creation, where you'll plan, test and refine your invention!

Instructor: Lisa Pascoe



Checkmate!

Advanced 3rd - 8th: 9:30 - 11:00

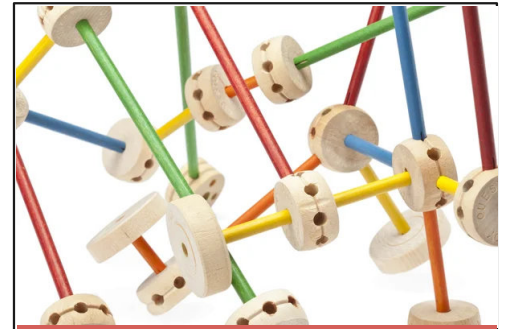
Beginner K - 3rd: 11:15 - 12:45

Beginner: If your child is just learning chess (or wants to learn!), this class is the perfect place to start. Learn the basics of chess, how to begin the game, strategies such as pins and forks, how to queen a pawn and how to checkmate with Queen and King or Rook and King at the end of the game, all while playing and having fun.

Advanced: Learn advanced concepts in chess, including openings to produce swift checkmating attacks or the win of material, learn how to plan ahead in chess and create positions where tactical themes can be used, all while playing and having fun.

Benefits of the game for all levels: Problem-solving skills, coping with the consequences of your decisions, and good sports behavior.

Instructor: Stephen Randall



"TINKER" Toys

Ages 4-5: 9:30 - 11:00

Back by popular demand! This super-fun building class lets our youngest learners explore a variety of high-interest, open-ended building sets (LEGOs, Quadrilla Wooden Marble Runs, Fat Brain Joinks, Brio Builder Sets, Tinkertoys, and more!) We're adding in some children's literature as a springboard for their designs in this play-based building class, with a strong emphasis on supportive social-emotional growth and understanding, including productive struggles that center on embracing mistakes and 'failing forward'.

Instructor: Stephanie Elliott



FilmMaking For Kids



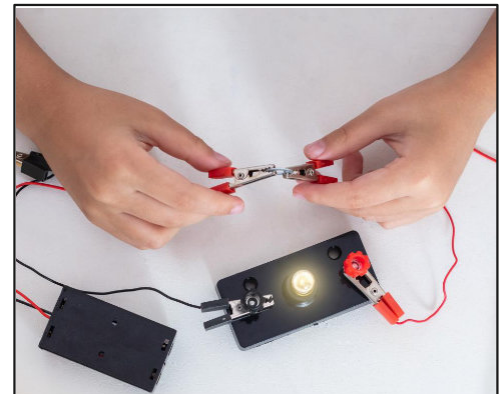
Making Movies

3rd - 4th grades: 9:30 - 11:00

5th - 6th grades: 11:15 - 12:45

Let's make a movie! Individually or in pairs, you'll create your very own documentary using WeVideo. What are you passionate about? Explore it through film! Learn about researching, scripting, videography and editing. Look at shot composition, angles and perspectives. Add transitions, music and basic effects. During the final class, we'll have a mini-film festival and share all the hard work!

Instructor: Michelle Joyce



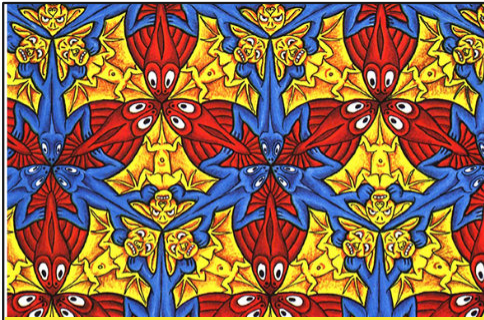
Everyday Electricity

4th & 5th grades: 9:30 - 11:00

2nd & 3rd grades: 11:15 - 12:45

Do you like experimenting with science and seeing what will happen? Have you ever wondered how a lightbulb works or why a battery has a plus side and a negative? In this class we will uncover the basics of electricity, explore how to create different types of circuits, and learn about switches. We'll even discover surprising objects that will complete and power a circuit. Don't miss this electrifying opportunity!

Instructor: Tracy Bednarick-Humes



Drawing with Math

2nd & 3rd grades: 9:30 - 11:00

4th & 5th grades: 11:15 - 12:45

How are masterpieces created? Did you know that artists almost always use at least one mathematical concept while working on a piece of art? They think about angles, proportion, linear perspective, balance, grids, quadrants, slope-intercept, estimating, fractal dimension, the golden ratio, vanishing point, perspective, and symmetry - just to name a few! We will look at different artists each week like Escher (tessellations), Picasso (cubism) De Stijl (geometry) and more! We will create our own mathematical beautiful creations based on their work!

Instructor: Hannah Noack-Ruebling



Digital Storytelling: Podcasting & Vlogging

5th- 8th grades: 9:30 - 11:00

3rd - 4th grades: 11:15 - 12:45

Are you passionate about podcasts and love discussing a variety of topics? You might be our next podcast host! In this course, you'll explore the world of podcast creation from the ground up. Learn what it takes to produce your own podcast, from scripts to shareable productions. We'll investigate a variety of tools and technology for our creative process.

You'll practice performing for an audience and discover how to generate enough content for a series. Additionally, we'll cover how to find content that respects copyright laws and doesn't infringe on others' ideas. Whether you want to sign up solo or bring a cohost, join us for a fun and engaging journey into digital storytelling!

Instructor: Chuck Baker

Instructors

Chuck Baker, M.S., gifted teacher, Maplewood-Richmond Heights Middle School

Tracy Bednarick-Humes, Ed.D., coordinator of gifted programming, Lindbergh School District

Liz Bickel, M.Ed., art/computer teacher, Seton Regional Catholic School

Stephanie Elliott, M.Ed., elementary and gifted teacher

Lisa Hummel, M.A., middle school science teacher, Affton School District

Michelle Joyce, M.Ed., gifted teacher, Mehlville School District

Art Koenig, A.M., GRC's "Renaissance Man"

Hannah Noack-Ruebling, M.A., gifted teacher, St. Charles School District

Lisa Pascoe, M.Ed., Board certified gifted teacher, Missouri Virtual Academy

Stephen Randoll, Ph.D., history professor St. Charles Community College, Rated USCF National Expert

Carrie Ziolkowski, M.A., gifted teacher, Hazelwood School District



Parenting Classes – Fall 2024

Thanks to a generous donor, our parenting classes are **FREE TO ALL** this fall & winter!

Come explore the various joys and challenges of raising bright, gifted children with us. Local experts in gifted education and child development will lead presentations/discussions on a wide range of topics. Classes will begin at 11:15 am and will run about 90 minutes total, with time for Q&A. These are interactive sessions, where we welcome questions and discussion.

October 12 - **Enhancing the Friendships of Gifted Kids** - We know it's sometimes tough for our kiddos to make - *and keep* - good friends. How can we best support them? - Agnes Meyo, Psy.D., Clinical psychologist, private practice

October 26 - **Giftedness: A Mosaic, not a Monolith** - Let's explore some of the different ways giftedness can manifest - there are certainly commonalities, but if you've seen one gifted kid, you've seen one gifted kid! - Justin Villet, Ed.D., Secondary Gifted Resource Teacher, Lindbergh High School

November 2 - **Underachievement in 2024** - Our kids are sooo smart - why don't their grades and school performance reflect that? - Nancy Bonn-Winkler, M.Ed., LPC, Grit & Grace Counseling Services

November 16 - **11 Surprising Ways to Keep Your Child Engaged in Learning, from Toddlerhood through Adolescence** - How do we keep those active little minds busy? - Kim Schneider, M.Ed., J.D., LPC, Head of School, Chesterfield Montessori School

GRC Membership

Your membership will help us improve existing programs, extend offerings and reach more children. You also receive benefits like priority registration and program discounts. It's quick, easy and tax-deductible (as allowed by law). Sign up by adding the appropriate amount to the total on the Learning Lab form or joining online. Memberships are valid for one year.

Wise Philanthropist (\$1,000+)

- Priority registration for all programs
- FREE parenting classes (\$160 value)
- FREE Learning Lab course
- \$50 discount off a Summer Academy
- Learning Lab scholarship in your name at your request
- Use of GRC library
- GRC logo lapel pin

Brilliant Benefactor (\$500 - \$999)

- Priority registration for all programs
- FREE parenting classes (\$160 value)
- FREE Learning Lab course
- \$50 discount off a Summer Academy
- Learning Lab scholarship in your name at your request
- Use of GRC library

Talented Patron (\$250 - \$499)

- Priority registration for all programs
- FREE parenting classes (\$160 value)
- \$10 off two Learning Lab courses
- \$50 discount off a Summer Academy
- Use of GRC library

Sharp Sponsor (\$150 - \$249)

- Priority registration for all programs
- FREE parenting classes (\$160 value)
- \$10 off two Learning Lab courses
- \$25 discount off a Summer Academy
- Use of GRC library

Intelligent Friend (\$100 - \$149)

- Priority registration for all programs
- FREE parenting classes (\$160 value)
- \$10 off two Learning Lab courses
- Use of GRC library

Gifted Member (\$60 - \$99)

- Priority registration for all programs
- FREE parenting classes (\$160 value)
- Use of GRC library

Imaginative Institution (\$100)

- For schools and other institutions
- Recognition in newsletters and on website

Registration Form – Fall 2024

(Registration is available by sending in the form below with a check or credit card information or by registering online at www.giftedresourcecouncil.org – credit card payments will be charged a service fee.)

Child's name: _____ Age: _____ Grade/School: _____

Gender: _____ Address (Street/City/State/Zip): _____

Parent name: _____ Preferred phone: _____

Parent name: _____ Preferred phone: _____

Parent email(s): _____

Parent(s) occupations/employer: _____

EMERGENCY CONTACT (if parents can't be reached):

Name/relationship: _____ Phone: _____

Allergies or other conditions: _____

How did you learn about GRC? _____

Race/ethnicity (optional, but useful for GRC when applying for grants!) - please choose any/all that apply:

American Indian or Alaskan Native Asian Black or African American White Hispanic/Latino/a

Native Hawaiian or other Pacific Islander Other or additional info: _____

Please select your child's class choice(s) from the list(s) below.

SESSION 1: 9:30 - 11:00

- Ages 4 - 5 "TINKER" Toys
- 1st - 3rd Impressionist Era
- 2nd - 3rd Drawing with Math
- 2nd - 3rd Mind-Bending Escapes
- 3rd - 4th Making Movies
- 3rd - 5th Blown Away
- 4th - 5th Everyday Electricity
- 3rd - 8th Checkmate! Advanced
- 3rd - 8th The Glory of Egypt
- 3rd - 8th LEGO Mindstorms Robotics: Beginning
- 5th - 8th Digital Storytelling: Podcasting & Vlogging

SESSION 2: 11:15 - 12:45

- K - 3rd Checkmate! Beginning
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- 3rd - 8th LEGO Mindstorms Robotics: Advanced
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- 4th - 5th Mind-Bending Escapes
- 5th - 6th Making Movies

No refunds after September 28, 2024. Members' priority registration good until September 13, 2024. All others taken on a first-come, first-served basis.

Are you a current member of GRC? Yes No

Would you like to become a member? Yes No

At which level? _____

Return form & payment to: Gifted Resource Council
10425 Old Olive St. Rd., LL1
Creve Coeur, MO 63141

Total Fees Enclosed:

Class(es) - \$120 each: _____

Membership: _____
(optional)

TOTAL: _____

Payable by check to: Gifted Resource Council
or credit card (transaction fee charged):

Credit card #: _____

Exp. Date: _____

Security code: _____

Name on card: _____