



Learning Lab Winter 2021

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.



In-Person Requirements:

Students and instructors will wear masks and adhere to social distancing guidelines.

Learning Lab Dates:

Most classes run Saturdays, Jan. 30 - March 6.

Learning Lab Location:

Owen Ridge Complex, 357 Marshall Ave., 63119

Learning Lab Tuition & Payment:

Classes are \$100/six-week class, payable online or by check.

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

Class Schedule

SESSION 1: 9:30 - 11:00 - Saturdays

| | |
|-----------------------------------|--|
| Ages 4-5 | STEAM Scavenger Hunt |
| Open | Tournament Tactics |
| 1 st - 2 nd | Architecture Meets Mythology, Oceania |
| 3 rd - 5 th | City of the Future |
| 3 rd - 8 th | Legends, Castles & Mythology |
| 4 th - 6 th | Put Yourself in the (Statistics) Game! |
| 4 th - 8 th | Advanced Robotics |

SESSION 2: 11:15 - 12:45 - Saturdays

| | |
|-----------------------------------|---------------------------------------|
| Ages 5-6 | STEAM Scavenger Hunt |
| Open | Make a Move |
| 2 nd - 6 th | Drawing Comics |
| 3 rd - 5 th | Architecture Meets Mythology, Oceania |
| 3 rd - 5 th | Even More Drawing with Math |
| 3 rd - 5 th | Science of Space |
| 4 th - 8 th | Battlelore of the High Seas |

ONLINE

5th - 12th Storytellers of the Tabletop! - Thursdays - 4:30 - 6:00 p.m. (Jan. 28 - March 4)



Class Descriptions – Winter 2021

* indicates a new class

Please read CAREFULLY for dates & times!

ALL classes are January 30 - March 6 unless otherwise noted.

Advanced Robotics Using LEGO

Mindstorms EV3 Kits

Grades 4–8 9:30 - 11:00

Develop your creativity and coding skills by making LEGO robots! Build and program working robots which respond to your commands as well as information from their environments. You can even design your own robot from scratch! Using laptops, you'll program your creation using multiple sensors, motors and intelligence units. Each student will work with his/her own robotics kit and computer, and be given a chance to share and compare discoveries and creations with peers.

Instructor: Lisa Hummel

sports/entertainment. The sky's the limit as you combine the practical and the fantastical in your City of the Future!

Instructor: Hannah Noack-Ruebling

*Drawing Comics

Grades 2-6 11:15 - 12:45

Like to doodle & sketch? Interested in comics & manga? Grab a pencil and paper and improve your skills from the fundamentals on up. Starting with basic shapes and patterns, you'll also explore faces, expression, movement, clothing, shading and more! Picture yourself becoming a better artist!

Instructor: Chuck Baker

*Architecture Meets Mythology, Oceania

Grades 1 & 2 9:30 - 11:00

Grades 3–5 11:15 - 12:45

A continuation of our popular fall course! Investigate places like Micronesia and Australia and discover the Maori monster Taniwha and the aboriginal rainbow serpent. Build structures like island tree houses and Easter Island statues. There will be different topics each week. Plus, students will be creating an art project based on each one! It's mythology, art and architecture all rolled into one!

Instructor: Lisa Bader

* Even More Drawing with Math

Grades 3–5 11:15 - 12:45

This popular class is back with all new activities! We're going to keep looking at the connections between math and art! How does the Pythagorean Theorem relate to art? What's the math connection in optical illusions? Learn how math can be creative and art can be analytical! You'll spend lots of time creating with hands-on activities incorporating math concepts.

Instructor: Hannah Noack-Ruebling

Experimenting with the Science of Space

Grades 3–5 11:15 - 12:45

Humanity's comprehension of the universe and our ability to explore outer space require knowledge of important scientific principles, laws and processes. Experiment with one or more of these concepts each week and learn how they help astronauts, astronomers, engineers and cosmologists. Explore Newton's Laws of Motion by designing and testing balloon rockets and try egg spinning! Perform some surprising experiments with atmospheric pressure - would it be different on other planets? Discover important properties of light through reflection, refraction, and diffraction using lasers, mirrors, prisms, and feathers. How do these phenomena power scientific instruments like telescopes and spectrometers?

Instructor: Lisa Hummel

*Battlelore of the High Seas

Grades 4–8 11:15 - 12:45

Civilizations have been battling on the oceans since boats were invented. Explore the tactics and strategy of naval operations from the Bronze Age through World War II. How have techniques (and technology) changed? Construct weaponry, shields, ships, and a windjammer. Imagine a recipe for Greek Fire and invent countermeasures. A different era will be explored each week.

Instructor: Art Koenig

*City of the Future

Grades 3-5 9:30 - 11:00

The world is constantly changing! What will a city look like in a few hundred years? How would you create a city of the future? Explore the concepts of government (write your own charter!), city planning (how will you balance housing and business?), architecture (what will future buildings look like?), transportation (how will people get around?) – you may even devise your own ideas about money, fashion and

Legends, Castles & Mythology

Grades 3–8 9:30 - 11:00

Investigate truths and exaggerations over time through some of the liveliest legends and myths. What does King Arthur have to do with the Epic of Gilgamesh? What if the Greek and Roman gods/goddesses went

head to head in battle? How are the Egyptian gods similar? Explore the Fortress at Buhen, the Walls of Hattusa and European castles. Try your hand at writing in cuneiform.

Instructor: Art Koenig

Make a Move! (Beginning Chess)

Open Ages/Grades 11:15 - 12:45

Chess develops problem-solving skills, flexible thinking, logical reasoning and good sportsmanship. Everyone should at least know the basics! In this beginning class, learn how the pieces move, game rules including castling and the in passing rule and the basics of developing pieces, simple tactics such as pins and forks, queening pawns and basic checkmates.

Instructor: Stephen Randoll

Put Yourself in the (Statistics) Game!

Grades 4-6 9:30 - 11:00

Love to track sports statistics and analyze the game? What if you were the athlete? How can you use statistics to improve your own performance? Throw a ball and analyze trajectory, position and velocity graphs. Then determine the best path for a basketball shot.

Perform simple activities – jump, run, etc. – and create Google spreadsheets, graphs and algebraic equations to set goals for improvement and predict future success!

Join this sports “lab” to get to the heart of statistics: ranges, means, box plots, histograms and more!

Instructor: Chuck Baker

***STEAM Scavenger Hunt**

Ages 4-5 9:30 - 11:00

Ages 5-6 11:15 - 12:45

Map skills! Math skills! Creative crafts and murals! Each week a treasure hunt will focus on one (or more)

aspects of STEAM. Students will plot map points, draw their own maps, and create items to help them overcome various obstacles along the way (for example, if there’s a river to cross, use materials to create a bridge). One week students may be “Going on a Bear Hunt” and the next they’ll be studying maps of St. Louis. STEAM skills definitely mark the spot!

Instructor: Kristin Soifer

Storytellers of the Tabletop! A New Campaign

Jan. 28 - March 4 (Thursdays!)

Grades 5 - 12 4:30 - 6:00

Our first Dungeons & Dragons class was so popular, it’s been extended twice! If you missed out on it, we’re opening up a whole new campaign, so more adventurers can experience D&D. During this *online* class, you’ll create characters, solve problems and fight monsters with nothing but a character sheet and your imagination! The focus will be communication-heavy collaborative storytelling, teamwork and relationship building through social play and lots of creative fun! No additional books or items or required, although students might want a physical set of dice to roll.

Limited to 6 students.

Instructor: Hollis Moore

Tournament Tactics!

Open Ages/Grades 9:30 - 11:00

In this class, designed for students who have already taken our beginner class or have equivalent experience, students will prepare for getting involved in tournament play. Learn about tournament rules such as touch move, tactical openings such as gambits, and aggressive plays such as Chigorin's Defense and the Sicilian Defense. Learning tactical openings can lead to quick wins, in addition to developing better board vision.

Instructor: Stephen Randoll



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.

Safety: All in-person classes will be held in accordance with St. Louis County guidelines regarding Covid-19. Students and teachers will wear masks and maintain social distance. Class sizes will be limited depending on the spaces where they are held. Some classes may utilize the outdoors when feasible. Students should NOT attend class if they have any symptoms or a known exposure to anyone who has tested positive for Covid-19.

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.

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.

GRC Membership

Online parenting classes will start in January - all members participate free! Schedule coming soon.

Your membership will help us improve existing programs, extend offerings and reach more children. You also receive benefits like priority registration, program discounts, and free parenting classes. 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



Instructors

Lisa Bader, B.S., Missouri Baptist University, elementary teacher

Chuck Baker, M.S., University of Missouri, math teacher, Ferguson-Florissant School District

Lisa Hummel, M.A., Lindenwood University, middle and high school science teacher

Art Koenig, A.M., German Literature, Washington University, GRC's "Renaissance Man"

Hollis Moore, Ball State University, gifted specialist,

Kirkwood School District

Hannah Noack-Ruebling, M.A., Lindenwood University, gifted teacher, Hazelwood Galactic

Stephen Randall, Ph.D. St. Louis University, history professor St. Charles Community College, Rated USCF National Expert

Kristin Soifer, B.A., Washington University, preschool teacher, Samuel Preschool

Registration Form – Winter 2021

(Members have priority registration through Jan. 8. Registration is available by sending in the form below with a check or credit card information or by calling the office at (314) 962-5920 – credit card payments will be charged a small service fee.)

Child's name: _____ Age: _____ Birthdate: _____ Grade: _____

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: _____

Physician & phone: _____

Allergies or medical limitations: _____

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

SESSION 1: 9:30 - 11:00 - Saturdays

SESSION 2: 11:15 - 12:45 - Saturdays

IN PERSON at Owen Ridge Complex

STEAM Scavenger Hunt (Ages 4-5)

Tournament Tactics (Open)

Architecture Meets Mythology, Oceania (1st - 2nd)

City of the Future (3rd - 5th)

Legends, Castles & Mythology (3rd - 8th)

Put Yourself in the (Statistics) Game! (4th - 6th)

Advanced LEGO Robotics (4th - 8th)

STEAM Scavenger Hunt (Ages 5-6)

Make a Move (Open)

Drawing Comics (2nd - 6th)

Architecture Meets Mythology, Oceania (3rd - 5th)

Even More Drawing with Math (3rd - 5th)

Science of Space (3rd - 5th)

Battlelore of the High Seas (4th - 8th)

ONLINE

Storytellers of the Tabletop! A New Campaign - Thursdays - 4:30 - 6:00 (5th - 12th)

Each class is \$100/six-week session.

Are you a current member of GRC? Yes No

Would you like to become a member? Yes No

At which level? _____

Has your child attended our programs previously? Yes No

How did you learn about GRC? _____

Return form & payment to: Gifted Resource Council
357 Marshall Ave., Ste. 6
St. Louis, MO 63119

Total Fees Enclosed:

Class(es): _____

Membership: _____
(optional)

TOTAL: _____

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

Credit card #: _____

Exp. Date: _____

Security code: _____

Name on card: _____