



Learning Lab Fall 2023

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 14, 21, 28, November 4, 11, 18

Learning Lab Location:

Wydown Middle School, 6500 Wydown 63105

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 www.giftedresourcecouncil.org



Class Schedule

SESSION 1: 9:30 - 11:00

Ages 4-5	Playing with Color
K - 1st	It's a Hard Rock Life
1 st - 2 nd	Fairy Tale Math
2 nd - 8 th	Chess: Advanced
3 rd - 4 th	Mini Sphero Maze Challenge
3 rd - 5 th	Harry, Hogwarts & the World of Wizardry
3 rd - 8 th	Upcycled Artwork
3 rd - 8 th	LEGO Mindstorms Robotics - Beginner
5 th - 8 th	Brilliant Minds of Science

SESSION 2: 11:15 - 12:45

K - 1st	Playing with Color
K - 3 rd	Chess: Beginner/Novice
1 st - 2 nd	Mini Sphero Maze Challenge
2 nd - 3 rd	It's a Hard Rock Life
2 nd - 4 th	Design + Engineering = Architecture!
3 rd - 4 th	Fairy Tale Math
3 rd - 6 th	Legends, Castles & Mythology
3 rd - 8 th	Cryptography & Code Breaking
3 rd - 8 th	LEGO Mindstorms Robotics: Advanced

ONLINE! - Storytellers of the Tabletop - D&D - 1:30 - 3:00



Class Descriptions – Fall 2023

NEW!! Brilliant Minds of Science

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

Science is more than cold facts. It has genius, inspiration, and the personality of those who get inspired to weaponize their curiosity. From Aristotle & Hypatia to Watson, Crick & Franklin, we will investigate six groups of brilliant minds who managed to push science beyond the limitations of the ages in which they lived. Each week we'll look at both male and female scientists, and we'll travel around the world – from Greece to Sweden to France to America – from ancient times to the 20th century. What great discoveries were made, and by whom? Come find out with us!

Instructor: Art Koenig

NEW!! Cryptography & Code Breaking

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

Are you a master code breaker? Would you like to be? Experiment with different kinds of codes – like the Caesar Cipher, Hieroglyphics, Binary Codes, and Morse Code – and try your hand at each of them! You'll get a mini-history of each code and how it was used – and by whom. Then you can create your own code! Your problem-solving skills will be challenged as you unlock the captivating world of cryptography.

Instructor: Angela Rhodes

NEW!!

Design + Engineering = Architecture!

Grades 2nd – 4th 11:15 - 12:45

Build your design thinking and 3D creativity in this hands-on class that will challenge your observational skills, critical thinking, engineering and problem solving. We'll investigate how bridges and buildings are made and their different styles. We'll discuss the architecture in St. Louis and Forest Park. You'll create your own bridges and houses using just paper! Explore how architecture has changed over the years and what the future holds, including green and "smart" buildings. Join us and buttress your knowledge of all things architecture!

Instructor: Hannah Noack-Ruebling

NEW!! Fairy Tale Math

Grades 1st – 2nd 9:30 - 11:00

Grades 3rd – 4th 11:15 - 12:45

Classic fairy and folk tales from all over the world provide a springboard for creative math problem solving in this fun class. This concept is based on the book *Afterwards*, which includes thought-provoking challenges (with a mathematical twist) about what happens *after* the end of each story. Engaging plots and characters will draw students in as they work together to solve complex problems, using a variety of strategies and math skills.

Problems can be adapted to the skill level of the students to provide challenges for everyone!

Instructor: Renee Clifton

NEW!! Harry, Hogwarts & the World of Wizardry

Grades 3rd – 5th 9:30 - 11:00

Calling all Gryffindors, Hufflepuffs, Ravenclaws and Slytherins! Have you ever wanted to attend Hogwarts? Come put on your Sorting Hat and explore all things Harry Potter! We'll investigate Quidditch, Potions, Arithmancy and Alchemy! We'll explore the magical world of fantastic beasts, as well as examine different characters and how they changed throughout the series. Don't Muggle your way out of this one!

Instructor: Hannah Noack-Ruebling

It's a Hard Rock Life!

Grades K – 1st 9:30 - 11:00

Grades 2nd – 3rd 11:15 - 12:45

Be amazed at the unseen wonders just beneath our feet! How do tectonic plates float on top of molten rock? Explore the formation of mountains, volcanoes and ocean trenches. Investigate caves, and create your own stalactites and stalagmites. Learn about the rock cycle and construct a geode and unique rock of your own. Geology rocks!

Instructor: Kara Viviano

Legends, Castles & Mythology

Grades 3rd - 6th 11:15 - 12:45

Live through some of the liveliest legends and myths, as we explore truths and exaggerations over time. Are there connections between the Epic of Gilgamesh and King Arthur? What if the Greek and Roman gods and goddesses went head to head in battle? Does the story of the flood from ancient Sumeria remind you of anything else from ancient times? Are the activities of the Egyptian gods similar to those of the famous Greeks and Romans? Write your way through history as you attempt cuneiform, hieroglyphs and calligraphy in copperplate style. A 'gastronomic event' brings these cultures and stories together as we feast for fun!

Instructor: Art Koenig

LEGO Mindstorms Robotics - Beginning

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

This is your chance to 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.

Instructor: Lisa Hummel

LEGO Mindstorms Robotics - Advanced

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

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

Make Your (Chess) Move!

Grades 2nd - 8th 9:30 - 11:00 - Intermediate/Advanced

Grades K - 3rd 11:15 - 12:45 - Novice/Beginner

Join us in the challenging world of chess! Learn moves, tactics and strategies to be a contender in a match with your friends. Apply your chess problem-solving skills to school and home, as you learn to think before making a move! For novice players, tactics can make or break your game. Will you use pins and forks or skewers? We'll look at strategies for your advanced skills, such as attacking on opposite wings and playing to reach a better ending. We'll work on good sportsmanship and coping with the consequences of your decisions.

Instructor: Stephen Randoll

NEW!! Mini Sphero Maze Challenge

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

Grades 1st - 2nd 11:15 - 12:45

Get the ball rolling in this brand-new class using Mini Sphero coding robots! Mini Sphero balls are great for learning the basics of coding and computer science and your problem-solving abilities. Use makerspace materials to design mazes and then code Mini Spheros to navigate through the maze.

Instructor: Shunetta Daugherty

NEW!! Playing with Color

Ages 4-5 9:30 - 11:00

Grades K-1st 11:15 - 12:45

Let's explore colors! What colors can we see? What about the ones we can't see? We'll make color-changing playdough, and investigate color wheels. We'll mix, create and name our own new colors. We'll read and discuss stories about color – tales like *The Crayon Box that Quit* and *How the Crayons Saved the School*. We'll use color and water to design tie dye effects, and much, much more!

Instructor: Beth Crites

NEW!! Upcycled Artwork

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

Upcycle! Recycle! Create! Use recycled materials to make all sorts of artwork. You'll also learn some recycling science as you go – what can be recycled? What can't? Why not? Bring in materials from home (we'll have some, too!), and return with your own upcycled masterpieces. Materials that might otherwise be thrown away will create new and unique items for you to keep!

Instructor: Angela Rhodes



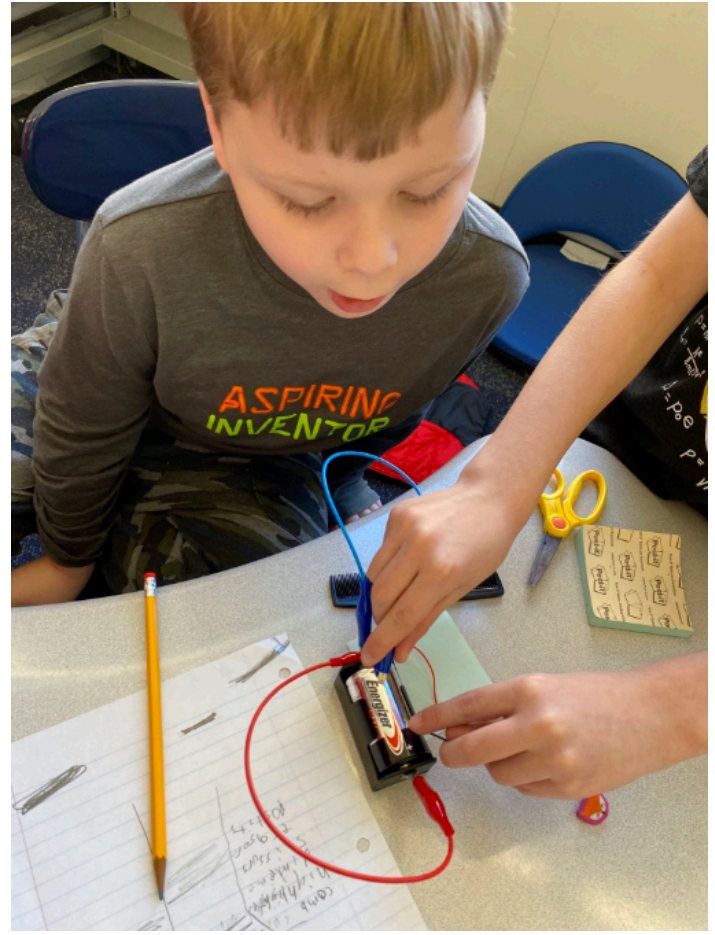
Learning Lab Details

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.

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.



Instructors

Renee Clifton, M.Ed., gifted teacher, Webster Groves School District

Beth Crites, kindergarten teacher, Sts. Joachim & Ann

Shunetta Daugherty, M.A., gifted teacher, University City School District

Lisa Hummel, M.A., middle school science teacher, Ferguson-Florissant School District

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

Hollis Moore, B.A., former gifted teacher, now works in tech industry

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

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

Angela Rhodes, M.S., teacher, St. Louis Public Schools

Kara Viviano, B.A., elementary teacher, St. Louis Public Schools



Parenting Classes – Fall 2023

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 are \$15 each or **FREE** with a GRC membership (starting at \$60/year). 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 14 - **Why You Need Family Game Night** - Rick Hasler, Gifted Specialist at MOSAICS Academy, educational consultant

October 21 - **Early Identification: How Do You Know if Your Child is Gifted?** - Agnes Meyo, Psy.D., Clinical psychologist, private practice

November 4 - **Let's Get Real About ADHD!** - Nancy Bonn-Winkler, M.Ed., LPC, Grit & Grace Counseling Services

We hope to add one more session soon!



GRC Membership

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

Registration Form – Fall 2023

(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: _____

Physician & phone: _____

Allergies or medical limitations: _____

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 - Saturdays

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

IN PERSON at Wydown Middle School

- | | |
|---|---|
| <input type="checkbox"/> Playing with Color (Ages 4 - 5) | <input type="checkbox"/> Playing with Color (K - 1 st) |
| <input type="checkbox"/> It's a Hard Rock Life (K - 1 st) | <input type="checkbox"/> Chess: Beginner/Novice (K - 3 rd) |
| <input type="checkbox"/> Fairy Tale Math (1 st - 2 nd) | <input type="checkbox"/> Mini Sphero Maze Challenge (1 st - 2 nd) |
| <input type="checkbox"/> Chess: Intermediate/Advanced (2 nd - 8 th) | <input type="checkbox"/> It's a Hard Rock Life (2 nd - 3 rd) |
| <input type="checkbox"/> Mini Sphero Maze Challenge (3 rd - 4 th) | <input type="checkbox"/> Design + Engineering = Architecture (2 nd - 4 th) |
| <input type="checkbox"/> Harry, Hogwarts & the World of Wizardry (3 rd - 5 th) | <input type="checkbox"/> Fairy Tale Math (3 rd - 4 th) |
| <input type="checkbox"/> Upcycled Artwork (3 rd - 8 th) | <input type="checkbox"/> Legends, Castles & Mythology (3 rd - 6 th) |
| <input type="checkbox"/> LEGO Mindstorms Beginning Robotics (3 rd - 8 th) | <input type="checkbox"/> Cryptography & Code Breaking (3 rd - 8 th) |
| <input type="checkbox"/> Brilliant Minds of Science (5 th - 8 th) | <input type="checkbox"/> LEGO Mindstorms Advanced Robotics (3 rd - 8 th) |
| <input type="checkbox"/> ONLINE: 1:30 - 3:00 Storytellers of the Tabletop D&D (7 th - 12 th) | |

No refunds after October 1, 2023. Members' priority registration good until September 15, 2023. 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): _____

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: _____