

Summer Lab

Adventure Kids Day Camp • Summer Lab on Stage • Summer School • Fun in the Sun • Sports Camps

Summer 2018



THE UNIVERSITY OF
CHICAGO

Laboratory
Schools

Summer Lab

Fun and a love of learning never go on vacation

Creating, adventuring, playing, computing, collaborating, running, dancing, performing, reading, cooking, calculating, cooperating.

Summer Lab has it all.

Our people, our location, our programs, and our values make Lab the place to be during summer.

Summer Lab's expansive offerings build on almost 70 years of experience creating outstanding summer activities at the University of Chicago Laboratory Schools. Summer is our time to extend the Schools' mission in new ways, inviting not just Lab students but young people from around the neighborhood and around the world to join us. With outstanding counselors and teachers, Lab is

also fortunate to have remarkable resources that we make the most of for our summer campers—Earl Shapiro Hall, for grades N–2, and the Historic Campus, for grades 3–12. And we are also able to draw on the unmatched resources of the University of Chicago.

Our summer campers make new friends, share adventures, have a great time, and make the most of summer. Join us!

“**Exceptional quality of instruction. Highly engaged child. Excited to learn.**”





Welcome to Summer Lab. I arrived as the new director of the Laboratory Schools last year just as Summer Lab catapulted into full operation. It was electric and that is how Summer Lab is every year—an incredible variety of activities and interests, great games

to play, great puzzles to solve. The campers are excited to get to know one another. The staff bring energy and joy to their work.

We take our mission as seriously in the summer as we do in the academic year, and so Summer Lab programs are about igniting and nurturing an enduring spirit of scholarship, curiosity, creativity, and confidence.

At Lab, we value: learning experientially, exhibiting kindness, and honoring diversity.

We care about the whole child and it helps us knit together a group of young people who come to spend their days with us from all across Chicago and many from around the world. We have decades of experience

operating our summer programs and ensuring a safe place for students and campers to explore and grow.

I welcome returning families to see all we offer this coming summer and invite new families to consider spending part of the summer with us. We are here to answer your questions as you consider your options for the summer, and I hope you will be inspired to be part of our community.

Regards,

Charlie Abelmann

Director

University of Chicago Laboratory Schools

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Complimentary Bus Service

Early Bird Discount—Save \$150 for fully paid registration received before March 15, 2018

Students may come for three weeks or six, may choose “full day” programs or a morning and afternoon combination. They may stick with one activity, e.g., Adventure Kids Day Camp, for all summer long, or do three weeks of Summer School plus three weeks of Adventure Kids. Or six weeks of Summer Lab on Stage, plus an afternoon class. Sports Camps finish out the day between 3 and 5:30 pm. All are welcome to experience summer at the Laboratory Schools. A love of learning never goes on vacation!

Register Online at <http://summerlab.org>

Summer School

Summer School at Lab is guided by the mission of the University of Chicago Laboratory Schools, and enrollment is open to all students. The continuing challenge to which our distinguished faculty members rise each and every summer is to keep their material fresh, relevant, and truly engaging for their students. True to the principles espoused over a century ago by Professor John Dewey, learning at Summer Lab is play, and play at Summer Lab is learning. Join us!

Summer School classes meet Mornings, Afternoons, and Full Day. Some run for six weeks, others for three weeks only. Please check meeting times and dates in each listing that follows, and feel free to contact the Summer School office with questions about structuring your student's days.



Nursery & Kindergarten

Nursery School Full Day or Morning

*Open to students age 3 to 5 years
(age 3 by September 1)*

Come and join us in Earl Shapiro Hall, our early childhood learning center, for a fun-filled summer program of indoor and outdoor play and learning. Activities will include cooking, fantasy and dramatic play, arts and crafts, stories, drama, and music. Depending on the interests of the group, a special focus for the summer may be animal study, cooking, science explorations, or a combination of these. Daily water play, cooling opportunities in the sprinkler and wading pool will be available. Field trips to the neighborhood will be taken on mild days to campus locations, Jackson Park and nearby playgrounds.

Full Session: June 18–July 27

Session I: June 18–July 6

Session II: July 9–July 27

Full Day: 8:30 a.m.–3 p.m.

Full Day Instructors: Ann Marie Baumann, Nisha Ruparel–Sen, and David Williamson

Morning: 8:30 a.m.–1 p.m.

Morning Instructors: Ann Marie Baumann, Jennifer Morris, and Tomoko Hata

Kindergarten Full Day

*Open to students entering Kindergarten
(age 5 by September 1)*

Children will work, play, and cook; listen to story time in the school library; work

in the computer lab; play in the pool and have swimming instruction; and “eat through the alphabet.” Also, we will take class field trips to interesting places. Our goal is to provide an environment, indoors and out, in which children can explore, learn and, most importantly, play.

Full Session: June 18–July 27

Session I: June 18–July 6

Session II: July 9–July 27

Full Day: 8:30 a.m.–3 p.m.

Full Day Instructors: Felicia Carr and Mary Jones

Story Time

*Open to students age 4 to 5 years
(age 4 by September 1)*

Join us for a summer filled with stories! We experience stories in so many ways! Stories will be read from books and retold using a felt board, small props, and puppets. Stories will be explored further through art and sensory activities. They have the power to ignite the children’s curiosity and imagination, fueling and enriching the children’s play. Each child will be encouraged to tell their own stories that will be recorded in a book, providing yet another way to experience stories! The children will act out their stories for one another during a group meeting time. In addition to experiencing stories in the classroom, once a week the children will enjoy story time in the library. During this time, the children will listen to stories that have been selected by the librarian. While in the library, they will also have an opportunity to independently explore books. Following lunch everyday, we will

enjoy stories that have math concepts embedded in them. We will play with numbers and other math concepts, including shape, size comparison, and directional words. At the end of the final camp session, the class will take a field trip to see the Summer Lab on Stage production, bringing a story to life on a formal stage.

Full Session: June 18–July 27

Session I: June 18–July 6

Session II: July 9–July 27

Full Day: 8:30 a.m.–3 p.m.

Instructor: Jane Maciak



Primary School



First Grade Fun With the Three Rs (Reading, WRiting and ARithmetic)

Open to students entering Grade 1

Join us for a summer of excitement as we gear up for first grade!

This class will offer reading and writing workshop as well as an introduction to number sense and the math basics. Class activities to develop and strengthen their reading, writing, and math skills will include whole group, small group and one-on-one instruction, and learning through interactive games. The students will have the addition of a special weekly event. The classroom teacher will provide access to portable computers and a well supplied library to best integrate the curriculum for rich learning experiences.

Students will be assessed at the start of Summer Lab to guide the teacher on how best to meet the needs of your child. Their strengths and basic skills will help inform differentiation of instruction. A post diagnostic assessment will be administered at the end of the class to identify the progress your child makes. All assessments will be shared with parents.

This class is sure to be a fun and engaging introduction to primary school!

Full Session: June 18–July 27

Full Day: 8:30 a.m.–3 p.m.

Instructor: Nefatiti Rochester

INK

Open to students entering Grade 1

This class is for students who enjoy reading and writing challenges and are looking to make progress with these skills while having big summer fun with like-minded classmates. We will journey through different genres, imitate techniques of some of our favorite writers, and begin to discover and reveal our own writing voice. Activities such as Writers' Workshop, Literature Circles, Readers' Theatre, conflict and resolution games, character portrayals, and more will nourish and foster these young readers and writers.

Full Session: June 18–July 27

Session I: June 18–July 6

Session II: July 9–July 27

Morning: 8:30 a.m.–1 p.m.

Instructor: Marlease Bushnell

Foundations for Learning to Read

Open to students entering Grade 1

This class, taught by two reading and learning specialists, is designed for the student who would benefit from the Orton Gillingham approach to learning to read which is structured, multisensory, and intensive. One primary cause of reading problems is difficulty processing sounds within words, which is caused by problems with phonemic awareness. Phonemic awareness difficulty causes readers to omit, add or substitute sounds in words. This class is designed for students who have difficulty with letter recognition skills, memorizing sight words and/or beginning blending skills, which are foundational skills for learning to read and write. Field trip experiences and swimming are included with the class to break up the day and make it a fun and rewarding experience.

Full Session: June 18–July 27

Full Day: 8:30 a.m.–3 p.m.

Instructors: Alyssa Levitin—Lead Teacher and Foley Burckardt—Program Supervisor and Instructor

Clay Creations

Open to students entering Grades 1–2

Remember the excitement of bringing home a ceramic turtle you made in school? Or was it a pinch pot that still sits atop your mother's dresser? Creating with clay has a certain magic that has engaged the human mind for tens of thousands of years, and this summer your child has an opportunity let loose his or her imagination using all kinds of "tricks" used for building clay treasures. Rolling, pressing, pinching and scoring, each afternoon is a fine motor workout for small fingers as they are guided through the process of making something new! There are endless choices: a set of ice cream bowls or tea cups, wind chimes, pretend food, a castle or log cabin bird house, a tile with their name on it, or beads for stringing into a necklace. And glistening glaze covers it all!

Full Session: June 18–July 27

Session I: June 18–July 6

Session II: July 9–July 27

Afternoon: 1–3 p.m.

Instructor: Betsy Jennett

Dig it! Exploring Archaeology and Ancient Civilizations

Open to students entering Grades 1–2

Have you ever wondered what it would be like to discover an ancient Egyptian tomb or how the ancient Romans lived? As we explore civilizations and cultures of the ancient past, we'll excavate artifacts, make a mini roman temple, talk to a real archaeologist and more. Class will include at least one field trip to the Oriental Institute on the University of Chicago campus to view some archaeological discoveries up close.

Full Session: June 18–July 27

Afternoon: 1–3 p.m.

Instructor: Elizabeth Parr

Art and Nature

Open to students entering Grades 1–2

Calling all artists! Enjoy the beautiful Chicago summer and let your creativity flow as we make art inspired by and created from nature. We'll look at contemporary eco artists like Andy Goldsworthy and Aurora Robson

and explore the natural environment surrounding us near the Lab School campus and throughout Hyde Park. Every student artist will receive his/her own sketchbook and we will sample several different mediums, including photographic sun–prints, earthworks, nature collage and sculpture using found objects. At the end of the session, students will put on their own art show so that parents and fellow students can have a chance to view their nature–inspired creations!

Repeats are not encouraged.

Session I: June 18–July 6

Session II: July 9–July 27

Morning: 8:30 a.m.–1 p.m.

Instructor: Elizabeth Parr

Exploring Scientific Activities

Open to students entering Grades 1–2

This full–day hands–on program is designed to encourage students to gather and organize information about the world around them. Activities will help students learn how science describes the world we live in, how to study the world the way scientists do, and, above all, how to make science fun! Our experiments will be grouped into five sections: chemistry (substances), physics (matter to energy), biology (living things), earth science (geography, meteorology), and astronomy (study of stars and planets). Each section will include several topics and experiments.

Full Session: June 18–July 27

Full Day: 8:30 a.m.–3 p.m.

Instructor: Marina Mardrus

Cooking Up Cultures

Open to students entering Grades 1–2

Come savor a "full course" of experiential learning as we "travel" our way around the globe learning about cultures—Asia to Africa, Europe to the ancient Americas and more! Every day we will work together to slice, dice, blend and bake as we explore some of the culinary traditions of various cultures both past and present. But that is not all! We will immerse ourselves in the literature, arts, music, games and traditions of these far away places incorporating reading, writing, and math as they naturally arise as part of our travel adventures. Weekly field trips will allow us to experience these cultures beyond what is possible in the classroom. Guest speakers will share their first–hand knowledge of a culture and country helping to deepen our understanding. Travel journals will help students document their thoughts and experiences. As students tantalize their taste buds and explore various cultures, they will engage in thoughtful discussions to discern the similarities and differences between the people with whom we share earth. So, pack your apron and enjoy a trip around the world in our own backyard. Each summer we engage in different cultural experiences, so join us even if your child has been on the journey before.

Full Session: June 18–July 27

Session I: June 18–July 6

Session II: July 9–July 27

Morning: 8:30 a.m.–1 p.m.

Materials Fee: \$30 per session

Instructor: Karen DeMaio

Computational Thinking Workshop



Primary School Teachers who are parents or grandparents of first or second graders:

Join a week–long workshop on computational thinking along with your child or grandchild.

Intrigued? Please contact summerlab@ucls.uchicago.edu

Summer Math

Open to students entering Grades 1–2

Have fun with math this summer! Students will enjoy participating in games, projects, books, technology, puzzles, and hands-on activities that will reinforce or challenge math skills. Lessons will include whole group and small group instruction. Topics covered will relate to grade level studies and include basic operations, problem solving, fractions, telling time, money, and logic. We invite your child to join us in experiencing the wonders of mathematics!

Full Session: June 18–July 27

Session I: June 18–July 6

Session II: July 9–July 27

Afternoon: 1–3 p.m.

Instructors: Skyla Wright 1st Grade and Emily Kennedy 2nd Grade

Ease into Chinese Language and Culture

Open to students entering Grades 1–2

Allow your children to immerse themselves in the exciting and multi-dimensional experience of Chinese language and culture this summer! In this hands-on activity-based class, first- and second-grade students will participate in age-appropriate activities which will allow them to explore the rich traditions of Chinese arts and crafts. Students will act, sing, create and tell stories, make food and toys, and learn Chinese vocabulary while having fun and making new friends. This program is designed for non-heritage students and requires no previous exposure to the language.

Session II: July 9–July 27

Morning: 8:30 a.m.–1 p.m.

Instructor: Treena Larson

Global Storybook Engineers Jr.

Open to students entering Grades 1–2

Harness the power of fairytale and myth to learn the fundamentals of engineering! Students listen to folk tales, stories and myths from different cultures and explore how they can engineer solutions to rescue storybook heroes by building spaghetti towers, boats, Bristlebots and more. They share and compare their design challenges with their global partner class through a series of video exchanges and learn about

each other's lives and cultures in the process.

Full Session: June 18–July 27

Session I: June 18–July 6

Session II: July 9–July 27

Morning: 8:30 a.m.–1 p.m.

Instructor: Natalia Quinones

Makerspace

Open to students entering Grade 2

This class is designed for students who love hands-on building and constructing. Students will have the opportunity to work in the Makerspace in Earl Shapiro Hall. Throughout the course, students will be presented with a problem or challenge-based prompt that will be necessary for them to solve. They will explore, design, tinker, and invent using various tools and materials in order to arrive at a solution. The materials range from reusable and recyclable items, electronics such as LEDs, motors, and wire. This class will foster collaboration skills, persistence, and innovation—characteristics the students will carry with them for the rest of their lives.

Please choose Session I or Session II. Repeats are not available.

Session I: June 18–July 6

Session II: July 9–July 27

Morning: 8:30 a.m.–1 p.m.

Instructor: Emily Kennedy

Literacy Lab

Open to students entering Grade 2

This class, taught by a reading and learning specialist along with classroom teachers, is tailored to meet the reading needs of each individual child. All reading instruction will be delivered in small groups based on the child's needs. The four pillars key to reading development will be covered including building automatic word recognition, decoding, fluency and reading comprehension. In addition, reading books specific to the child's level will occur on a daily basis. The class curriculum will be facilitated by a specialist in Orton Gillingham, the Wilson program and Step up to Writing. Progress is continually monitored throughout the program to set individual goals for students.

Full Session: June 18–July 27

Full Day: 8:30 a.m.–3 p.m.

Instructors: Atiya Hamilton—Lead Teacher and Foley Burckardt—Program Supervisor and Instructor

INK

Open to students entering Grade 2

This class is for students who can read and write independently at grade level. Each child will self-select a book to read that is of interest to them. As they read, they will examine plot, character development, problem, solution, and outcome. Writing will be integrated with reading and will reinforce the six basic traits of writing: ideas, word choice, organization, sentence fluency, voice, and conventions. Children will keep a journal and confer with teachers as they read and write. If your child enjoys reading and writing for pleasure and thrives in a fast-paced environment, then this is the class for them.

Full Session: June 18–July 27

Session I: June 18–July 6

Session II: July 9–July 27

Morning: 8:30 a.m.–1 p.m.

Instructor: Eileen Wagner



Lower School



Math Literacy Workshop

Open to students entering Grade 3

Curiosity is a powerful motivation for children to read, write, and explore real world math problems. Students will engage in fun investigations, projects, or challenges to explore and solve mathematical problems introduced to them. How long does a cucumber plant grow and how much space do we need for it in our garden? How can we share cookies fairly? How can we increase a recipe? How do we figure out how many tiles we need for our new gym floor? Students will be reviewing and learning skills and concepts through fun, hands-on activities. Students will also strengthen their reading and writing skills through the process as they practice verbally sharing their thoughts and ideas and writing them in math journals. Observations will be written, ideas drawn, and relevant stories and children's literature will be read to discuss and write about mathematical ideas.

Full Session: June 18–July 27

Session I: June 18–July 6

Session II: July 9–July 27

Morning: 8:30 a.m.–1 p.m.

Instructor: Noha El-Sharkawy–Aref

Intensive Reading and Spelling

Open to students entering Grade 3

This class, taught by a reading and learning specialist along with classroom teachers is for students who need more time to solidify reading accuracy, fluency, and writing skills. One goal is to improve the fluency of reading to make it smoother, more accurate and faster. In addition, reading books specific to the child's level will occur on a daily basis. Students learn to go beyond reading of the words and learn to actively read text by summarizing, predicting, posing questions, and interacting with peers to discuss books. Being able to initiate writing tasks, formulate ideas, and put them in paragraph form is a focus of this class. Students will also learn to research a topic, summarize information, and take notes to “publish” their own book. The class curriculum will be facilitated by a specialist in Orton Gillingham, the Wilson program and Step Up to Writing. Progress is continually monitored throughout the program to set individual goals for students.

Full Session: June 18–July 27

Morning: 8:30 a.m.–1 p.m.

Instructors: Carin Peacock–Lead Teacher and Foley Burckardt–Program Supervisor and Instructor

Cooking up Math

Open to students entering Grade 3

This is a fun class of exploring delicious culinary creations from my blend of American and Mediterranean influences. Connections to food origins, cooking techniques, math strategies to solve recipe dilemmas, and literacy practices of documenting recipes will all be integrated into this experiential cooking class. This class is intended to complement the math literacy workshop in a fun, hands-on, and delicious setting!

Session I: June 18–July 6

Afternoon: 1–3 p.m.

Materials Fee: \$30

Instructor: Noha El-Sharkawy–Aref

Nature Detectives

Open to students entering Grades 3–4

Use your powers of observation and experimentation to solve some of nature's mysteries! We'll investigate insects, plants, and animals in a quest to discover how nature works. How do leaves know when it is time to fall off the tree? How can a salmon travel hundreds of miles back to where it was born to lay its eggs? Why do some birds fly south for the winter, but others stay in your backyard? These are only some of nature's mysteries we'll explore.

We'll sharpen our scientific skills and also use reading, writing, math, and art as we learn about the natural world. Magnifying glasses, and microscopes, collecting jars, thermometers—we'll use these tools and others. This class will spend a lot of time outdoors, observing nature up close, both nearby on our playgrounds and on fieldtrips to parks, nature preserves, and museums.

Grab your magnifying glass and join us! Which of nature's mysteries would you like to solve?

Session II: June 9–July 27
Full Day: 8:30 a.m.–3 p.m.
Instructor: Gwennan Ickes

Poetry in Motion

Open to students entering Grades 3–4

Express your feelings, wonders, interests, and concerns, and be inspired by your life, nature, and surroundings as you discover your voice through poetic expression. Daily mini-lessons on writing techniques, word choice, types of poetry, and famous poets' work will help us develop our inner voice and inspire us to connect with ourselves and others. The class will publish their work online as well as create a class book of poems.

Session II: July 9–July 27
Afternoon: 1–3 p.m.
Instructor: Rachel Talen

Game On! Digital Game Design

Open to students entering Grades 3–4

Game On! will provide an exciting and facilitative atmosphere in which students explore and apply concepts of digital game design, computer programming, and graphic design. By the end of the summer, they will be confident using Scratch to create a FUN game that expresses their unique viewpoints, interests, and programming skills. The course will culminate with a student showcase, where parents, teachers, and peers will gather around the Summer Lab Arcade to try their luck at games which reflect the spark of each young creator.

Session II: July 9–July 27
Afternoon: 1–3 p.m.
Instructor: Mickey Sanders

INK

Open to students entering Grades 3–4

This class is for students who enjoy reading and writing challenges and are looking to make progress with these skills while having big summer fun with like-minded classmates. We will journey through different genres, imitate techniques of some of our favorite writers and begin to discover and reveal our own voice. Activities such as Writers' Workshop, Literature Circles, Readers' Theatre, conflict and resolution games, character portrayals, and more will nourish and foster these young readers and writers.

Full Session: June 18–July 27
Session I: June 18–July 6
Session II: July 9–July 27
Afternoon: 1–3 p.m.
Instructor: Valerie Grbavac

Goggles On!

Open to students entering Grades 3–4

Have you ever built a rocket? Or made liquids change color? What needs to be done to conduct an experiment? How do we prepare, run, and readjust an experiment? This course is designed to introduce research and experiment methods in physics, chemistry, and biology. Students will have the opportunity to explore guided experiments and showcase their knowledge by creating their own.

Session I: June 18–July 6
Morning: 8:30 a.m.–1 p.m.
Instructor: Mickey Sanders

Readers and Writers Workshop III–IV

Open to students entering Grades 3–4

A day filled with reading books you enjoy, laughing about whimsical poetry and riddles, listening to stories of a favorite author, conversing about stories, and sharing your written work with friends is a day spent in Readers and Writers Workshop III–IV.

During Readers and Writers Workshop, children will have an opportunity to independently read books that pique their interest and collect their thoughts in a Readers Response Notebook.

Daily mini-lessons will include explicit instruction in word solving and comprehension strategies as well as genre studies. During Writers Workshop, children will practice finding their own writing "voice," while internalizing the process of writing, drafting, revising for meaning, editing, and publishing. Their working drafts will be collected in a Writer's Notebook. We will also use readers' theater to instill an element of drama into our reading.

Weekly field trips will influence our selections for reading and our writing projects. Assessments will be given to determine the child's instructional reading level, fluency rate, and stage of developmental spelling.

The primary goal is to help students strengthen their reading and writing strategies by finding books of interest at their reading level and finding their writing "voice." Days spent in Readers and Writers Workshop help children develop the habit of reading and writing.

Full Session: June 18–July 27
Full Day: 8:30 a.m.–3 p.m.
Instructor: Matt Zakosek

Dig into Ceramic Clay

Open to students entering Grades 3–5

There is a certain magic in working with clay that has engaged the human mind for tens of thousands of years. This is an opportunity to take your child's creative spirit in new and exciting directions through the medium of ceramic clay. We will dig into fresh slabs and build something decorative or functional, architectural or figural. We will experiment with unexpected ways to use glaze beyond just adding color to pieces, and incorporate melting marbles and beach glass. Students can track their ideas in sketchbooks as they develop, and we will add photographs to document their process. We'll explore in the fresh air for inspiration from nature and campus architecture, sketching or making clay impressions, and take a field trip to The Oriental Institute or to the pottery studio of a local artist. On the last week together, everyone will have a chance to present a group exhibit of their favorite work.

Full Session: June 18–July 27

Session I: June 18–July 6

Session II: July 9–July 27

Morning: 8:30 a.m.–1 p.m.

Instructor: Betsy Jennett

Creative Storyboarding

Open to students entering Grades 3–5

Does your child love movies? Photography? Graphic novels? Storytelling? Art? This class will incorporate storytelling, artistic practice, and performance into one exciting creative endeavor. We will begin by laying out our ideas and the stories we want to tell. We will use traditional filmic storyboarding techniques including drawing, organizational, and writing skills.

We will explore what it means to organize our thoughts around a story in a visual way and communicate ideas. We will work individually and collaborate on projects and research, helping one another through open, friendly, and inclusive presentations.

The resulting work will range from a series of artworks, photography, performance or short videos.

Full Session: June 18–July 27

Session I: June 18–July 6

Session II: July 9–July 27

Morning: 8:30 a.m.–1 p.m.

Instructor: Iris Bernblum

Lego® Robotics

Open to students entering Grades 3–5

Students will explore the amazing world of robotics with the help of Lego Mindstorms EV3. Each week students will have the opportunity to apply their knowledge with mini-challenges and competitions such as the Maze Challenge and Robot Sumo Challenge. This class will encourage students to think like scientists and engineers as they brainstorm, design, and program robots using Lego with technology. This hands-on class will tickle the children's curiosity and creativity, sharpen their analytical thinking skills, foster team building, and provide lots of fun. This camp is great for one or two sessions. Students may enroll in both sessions and will progress to a higher level working on new ideas and projects.

Material is updated year-to-year, so students are welcome to return!

Full Session: June 18–July 27

Session I: June 18–July 6

Session II: July 9–July 27

Morning: 8:30 a.m.–1 p.m.

Afternoon: 1–3 p.m.

Instructor: Marie-Ange Stalla

The Wonders of Weaving

Open to students entering Grades 3–5

Campers will create a large wall hanging or decorative pillow using a 14" x 18"

Harrisville Lap Loom. Campers will learn to warp their loom and weave using basket ware, rya knotting, soumak, fringe, and finishing techniques. Weavings will incorporate a variety of brightly colored and textured yarn, branches, twigs, and found objects to create one-of-a-kind art pieces. Campers will explore other hand-made weaving tools, rope making, and peace doll creation. Students will take home their Harrisville Lap Loom at the end of the three-week session.

Session I: June 18–July 6

Afternoon: 1–3 p.m.

Materials Fee: \$75

Instructor: Sister-Arts Studio, Inc.

Culinary Skills with Chef Theo

Open to students entering Grades 3–5

Experience the good old-fashioned fun of rolling up your sleeves and mixing, scraping and kneading that go into selecting, measuring and prepping ingredients for your family's favorite mealtime dishes! In this age of pre-measured everything, it has become too easy to lose these basic kitchen prep skills. This class will acquaint students with the fun of the kitchen, as they experience the entire process of creating meals from scratch based on the bounty of the season using locally sources products. We will learn the basics of handling common kitchen tools including vegetable peelers, measuring



Lower School

spoons and cups, rolling pins and more. Students should consider bringing an apron, however all cooking materials and ingredients will be provided. Eggs, dairy and flour ingredients will be used unless otherwise indicated by student's parent or guardian.

Session II: July 9–July 27

Afternoon: 1–3 p.m.

Materials Fee: \$30

Instructor: Theo Gilbert

Chess

Open to students entering Grades 3–5

This camp is great for both beginners and experienced players. Each class will consist of a fun interactive teaching period and guided practice time. Campers will learn opening, endgame, and positional tactics and strategies. They will also be tested for chess belts under Chess Scholars' patented system, earning new belts as they improve during the camp. Both new and returning participants are welcome and will get to the next level under the guidance of an experienced Chess Scholars Coach. There will also be a chess competition with prizes. Each camper will take home a chess set and an award.

Full Session: June 18–July 27

Session I: June 18–July 6

Session II: July 9–July 27

Afternoon: 1–3 p.m.

Instructor: Chess Scholars

Photography

Open to students entering Grades 3–5

As digital imaging becomes more and more widespread it becomes easy to forget the rich history of photography, and how fun the old-fashioned, tactile processes are. This class will acquaint students with the magic of the darkroom, as they learn the entire process of creating images. Students will learn how to create a properly exposed photograph and how the same principles apply no matter what type of camera is used. We will develop film and print from the resulting negatives on black and white paper. A 35mm SLR camera is available for each student to use during class time.

Full Session: June 18–July 27

Session I: June 18–July 6

Session II: July 9–July 27

Morning: 8:30 a.m.–1 p.m.

Instructor: Candice Latimer

Adventures in Outer Space

Open to students entering Grades 4–5

Do you love outer space? Are you fascinated by far away galaxies? Would you like to build model rockets and lunar landers? If you answered yes to any of these questions, then this is the class for you! In this class you will have a chance to build multiple model rockets, test a heat shield, save an astronaut during a lunar landing mission, and learn about far off galaxies. We will develop a colony that can survive on a far off planet and create models of outer space. This is a great class for students excited about space travel, engineering, and science!

Please choose Session I or Session II. Repeats are not available.

Session I: June 18–July 6

Session II: July 9–July 27

Afternoon: 1–3 p.m.

Instructor: Sushma Lohitsa

Comic Book Script Writing

Open to students entering Grades 4–5

Comic Book Script Writing is an introduction to writing narrative scripts, developing a plot and theme for a comic, and how to format your scripts for aspiring writers. Students will learn all

the necessary tools and tricks for not only telling great stories, but for doing so in the comics medium—the language of comics. Students will learn how to conceive, outline, write—and rewrite—a complete 5–page comic book script, just the way the pros do it! Students will also learn about the history of comics through lectures and reading, discuss how a good script translates into visual medium, and have a chance to hear how their work is received through feedback from their classmates.

Please choose morning or afternoon, but not both.

Session II: July 9–July 27

Morning: 8:30 a.m.–1 p.m.

Afternoon: 1–3 p.m.

Instructor: Joseph Kerney



Lower & Middle School



Adventures in Math

Open to students entering Grades 4–5

“Adventures in Math” is an exciting and interactive class that will comprehensively cover age-appropriate math topics. Students will reinforce and enrich knowledge and skills from basic operations with multi-digit numbers to fractions to decimals to the order of operations, data representation and interpretation, generating and analyzing patterns as well as problem solving. Topics in Geometry will include lines, angles, shape classifications, area and volume. Hands-on activities with a partner, independent computer challenges along with team competitions will reinforce daily lessons in an enjoyable and engaging way.

Full Session: June 18–July 27

Session I: June 18–July 6

Session II: July 9–July 27

Morning: 8:30 a.m.–1 p.m.

Instructor: Julia Kornienko

Intensive Reading and Spelling

Open to students entering Grades 4–5

This class, taught by learning specialists, is for students who need more time to solidify reading accuracy, fluency, and spelling skills. Students are placed in groups based on their individual learning goals as determined by assessment. Literacy skills will be intermixed with

special area classes. Spelling will be approached through analysis of roots, prefixes, suffixes as well as exposure to the 6 syllable types and rules for syllable division. Reading fluency will be developed through reader’s theater, a strategy that combines reading practice and performing to enhance students’ reading skills and confidence. In addition tongue twisters, limericks, poetry and other fun activities will be incorporated. Students will also learn to go beyond reading of the words and practice reading comprehension strategies both through discussion and written responses. Finally, students will be introduced to literacy software designed to support students in reading and writing. The class curriculum will be taught by specialists with a background in multi-sensory instruction. Progress is continually monitored throughout the program to set individual goals for students.

Full Session: June 18–July 27

Morning: 8:30 a.m.–1 p.m.

Instructors: Keren Faling and Teresa Serangeli

Fantasy Engineering Adventures

Open to students entering Grades 4–5

Saving baby dragons from a castle engulfed in flames, helping gummy bears escape from a crashing plane and getting Shrek’s farm animals to

safety are just three of the challenges your engineers will face in this class. If your student is interested in tinkering, building, solving problems and using their creative genius, then this is the class for them. During this three week class we combine our love of fantasy and mythical creatures with the rigorous and creative engineering process. Students will have a chance to develop blueprints, build and test prototypes as well as learn how to make improvements on their models. They will have a chance to use critical thinking and math skills all while deeply engaged in solving a fun problem. We also learn about the science behind each of these challenges. It is a wonderful class that fully embodies the STEAM approach to learning!

Please choose Session I or Session II. Repeats are not available.

Session I: June 18–July 6

Session II: July 9–July 27

Morning: 8:30 a.m.–1 p.m.

Instructor: Sushma Lohitsa

Real World Math

Open to students entering Grades 4–5

Students will expand on their basic math skills using the real world math curriculum. This project-based curriculum is spiraled in such a way

that students are constantly working on new skills and concepts. The projects are highly interactive, cross-curricular, creative math applications for students in grades 4–5. Most importantly, the curriculum is rich in critical thinking, problem-solving, and complexity. Some topics you can expect this year are: multiplying and dividing multi-digit numbers, adding and subtracting fractions with like and unlike denominators, decimal place value, and basic geometry concepts.

Full Session: June 18–July 27

Session I: June 18–July 6

Session II: July 9–July 27

Afternoon: 1–3 p.m.

Instructor: Carl Farrington

City Chicks

Open to students entering Grades 4–6

Cluck, cluck, roost! City chicks is a class that teaches the skills and knowledge of raising city chickens. Students will determine suitable sites on the Lab campus for a chicken habitat, prepare the site, research breeds suitable to school yards, then budget for materials, supplies and chickens. They will then work as a team to assemble a safe and secure coop for chickens. Students will leave this course with the knowledge of how to care for animals and the origin and lifecycle of the food they eat.

Session II: June 9–July 27

Full Day: 8:30 a.m.–3 p.m.

Instructor: Ginger Phillips

Frank Lloyd Wright Summer Lab Institute

Open to students entering Grades 4–6

Come join us in this unprecedented collaboration with the Frank Lloyd Wright Trust and the University of Chicago Lab Schools as we explore Art, Architecture, and Architectural Preservation. We will use Chicago and the Robie House as a basis for our study of Wright's contributions to the world of architecture. Students will create art glass windows, architectural plans, and learn about the influence of Japanese Art and Culture on Wright's work.

Field trips may include: The Japanese Gardens, Frank Lloyd Wright's Home

and Studio, The Chicago Architectural Foundation, The Smart Museum and the Art Institute of Chicago.

Full Session: June 18–July 27

Session I: June 18–July 6

Session II: July 9–July 27

Morning: 8:30 a.m.–1 p.m.

Instructors: Erin McCarthy and Lisa Sukenic (Session I Only)

Innovation through Reading and Writing

Open to students entering Grades 5–6

This course is designed to teach students critical thinking skills through reading expository and fictional texts. The curriculum emphasizes higher order thinking by allowing students to analyze problems and solutions from multiple perspectives. Students will learn to show their thinking by working in literature circles with specific tasks and projects. In this innovative writing program, students will learn grammar and mechanics through a simulation called "Grammar Zones." This fun simulation, teaches the four parts of speech in the most creative way. Emphasis will be on the fundamentals of writing and their expansion with figurative language, imagery, personification, and symbolism. Students will write descriptive narratives, expository, and persuasive essays based on a series of real-life situations. DIY.org will be used for these writers workshops, asking students to respond to writing challenges and prompts to spur their inspiration and imagination.

Full Session: June 18–July 27

Session I: June 18–July 6

Session II: July 9–July 27

Morning: 8:30 a.m.–1 p.m.

Instructor: Carl Farrington

Beginning and Intermediate Web Design

Open to students entering Grades 5–8

Web Design is the intersection of creative art and modern technology. In this class, we explore the importance of aesthetic and accessible design choices and learn the technical skills needed to carry out those choices. The class time is distributed between web design lessons and guided creative projects where students use their new skills to make

progressively more complex web sites. Students will learn to build functional web pages, style them appropriately and attractively, along with critical thinking to make their web sites accessible, usable, and fun. Appropriate and safe internet behavior is emphasized throughout. Students will gain or develop their functional knowledge of basic HTML and CSS. Enrollment in previous Web Design course is not required.

Full Session: June 18–July 27

Session I: June 18–July 6

Session II: July 9–July 27

Afternoon: 1–3 p.m.

Instructor: Ian Huisken

Got Guts? The Inside Story

Open to students entering Grades 5–8

What do an earthworm, rat and bird all have in common? What can we learn about ourselves by taking a peek inside different organisms? Why does a squid look tough and clear while a frog has a yellow fat body? How are these animals like us? How are they different from us? What does the inside of an eyeball look like? Let's find out! Scalpels up!

Students have lots of questions about their bodies and the bodies of other living things. What better way to explore the answers to these questions than to take a look at organs, blood vessels, ligaments, and tendons first hand?

In this course on dissection, students will gain an appreciation of the complexity of organisms in a hands-on learning environment. They will leave Got Guts? with an understanding of basic dissection practices, how tissues and organs are interrelated, and why the internal structures of animals and humans may look similar or different.

Session II: July 9–July 27

Morning: 8:30 a.m.–1 p.m.

Instructor: Micyleia Sanders

Chicago as Cosmos: Considering the Windy City from an Ecological Perspective

Open to students entering Grades 5–8

Get to know Chicago beyond the cement. What did Chicago look like two hundred years ago? How about 15,000

years ago? What plants, fungi, and animals can currently be found living in the Windy City? This course will explore the natural history of Chicago and its current state as an ecological region through discussions, brief readings, local field trips, and hands on observations and activities. Each student will learn how to keep a “field journal” and how to ask and investigate questions that interest them about their environment.

Session II: July 9–July 27
Morning: 8:30 a.m.–1 p.m.
Instructor: Lindsey Sweis

Beyond the Egg Drop

Open to students entering Grades 5–8

Have you ever done an egg drop challenge? Have you ever tried to build the tallest tower possible out of paper? Have you ever designed something to solve a problem? If the answer to any of these questions is yes, then this is the course for you. Each day students will be challenged to use everyday materials to solve different problems. Each challenge will have particular engineering constraints and there will be time, space, and materials to design, build a prototype, test it, and then rebuild a final project to test. Throughout the course there will be an emphasis on the underlying scientific principles at work and how these ideas can be used to modify and improve different designs. Some challenges will be done in groups, and some challenges will be done individually. At the end of the class students will be given the chance to create their own design challenges for their classmates. Some designs will work, many designs won't, but everyone will build, test, and learn from the outcome.

Session II: July 9–July 27
Afternoon: 1–3 p.m.
Instructor: Michael Wong

Design Lab

Open to students entering Grades 5–8

Is your child the next Steve Jobs or Elon Musk? The goal of this class is to inspire the next generation of entrepreneurs, designers, and inventors who will change the world in a positive way. The Design Lab allows kids to use design and creativity to invent real things and to use real tools to bring their ideas to life.

The course is presented by our partners at Bit Space, Chicago's premiere maker lab for kids and teens. Throughout the class, students will progress through formal activities that will guide them through the design process. Within a framework of provided constraints, our young designers will research problems facing their community, brainstorm ideas for solutions, design and build prototypes and models, test their solutions, and iterate towards a final project. Participants will document their progress along the way, and the three-week course will culminate in a gallery presentation in which they can show off their work. Students will learn how to effectively use a variety of tools, machines, and technology to help them along the way, including hand tools and power tools, computer-controlled tools (laser cutters and 3D printers), 2D and 3D design software, video game and virtual reality programs, and new media. Emphasis will be placed on teamwork and cooperation, finding novel solutions to real world issues, and exploring the depth of creativity through design. Part design school, part maker lab, this class provides kids a fun and compelling way to learn new skills.

Full Session: June 18–July 27
Session I: June 18–July 6
Session II: July 9–July 27
Full Day: 8:30 a.m.–3 p.m.
Instructor: Bit Space

Stock Market

Open to students entering Grades 5–8

In this workshop-style course, you will learn the basic principles of stock market operations. This workshop is designed to provide a solid foundation for individuals who know little about stocks, bonds, mutual funds, IRAs, 401Ks, and other investment tools for the future. Students will have the opportunity to compete in a Stock Market competition through NationalSMS.com. They will learn how to research companies in order to make informed trades. The class will encourage students to build and maintain electronic portfolios and track market conditions with real-time quotes online. It will also show students how to budget money in a simulated checkbook with a modest salary. By the end of the class, students will understand market conditions, know what it means to invest for the

future, and produce a financial report for prospective customers. Students will also watch the 2002 documentary “Commanding Heights,” the film based on the 1998 book written about economic philosophies by economist Daniel Yergin and financier Joseph Stanislaw. Students will also learn about the economic crisis of 2007 and why the market and economy crashed.

Session I: June 18–July 6
Morning: 8:30 a.m.–1 p.m.
Instructor: Andrew Shilhanek

Goggles On!

Open to students entering Grades 5–8

Have you ever built a rocket? Or made liquids change color? What needs to be done to conduct an experiment? How do we prepare, run and readjust an experiment? This course is designed to introduce research and experiment methods in physics, chemistry and biology. Students will have the opportunity to explore guided experiments and showcase their knowledge by creating their own.

Session I: June 18–July 6
Afternoon: 1–3 p.m.
Instructor: Mickey Sanders

CSI: U of C Lab

Open to students entering Grades 5–8

This hands-on course will allow students to experience the science behind crime scene investigations. From Locard's exchange principle to DNA testing, fingerprints, and fiber analysis, students will get to perform crime lab and crime scene techniques. Students will learn some basic biology, chemistry, and physics as a foundation to understanding these techniques. The class will discuss how real-life crime scene investigators use these techniques and others to help solve crimes. Mock crime scenes will test your skills as you reconstruct what happened during a particular crime based on the evidence you find and analyze. No prior knowledge is necessary, just curiosity and a love of science.

Session I: June 18–July 6
Afternoon: 1–3 p.m.
Instructors: Tony Del Campo and Michael Wong

Hoopin' It Up!

Open to students entering Grades 5–8

Participants will enjoy the excitement of drafting professional players and managing their own basketball teams that will be used to compete against each other in tournaments using a head-to-head statistical-based board game. At the end of camp each camper will receive a copy the board game to use with family and friends.

Campers also will have an opportunity to display their real life hoop skills by playing in daily full court games in the gym. The statistics theme will continue during the real life games, as campers will keep track of their team's points, rebounds, and assists when resting on the sidelines during substitution rotations. In Hoopin' It Up! campers will develop skills in data collection, basic statistics, cooperation, and executive functioning in the context of basketball. Throughout the camp session, an emphasis will be placed on sportsmanship, healthy competition, and having fun.

Full Session: June 18–July 27

Session I: June 18–July 6

Session II: July 9–July 27

Morning: 8:30 a.m.–1 p.m.

Materials Fee: \$35 per session

Instructor: Matt Maciak

Roll Camera and Action!

Open to students entering Grades 5–8

We all know that a great movie starts with a great story. But, what makes a story great? On screen? In this class, we will explore the fundamentals of filmmaking, including screenwriting, directing, shooting and editing.

During the first session, we will focus on documentaries. We will learn how to do 'subject interviews' and film 'B-roll.' We will come to understand how a documentary is 'found' by the filmmaker through editing.

During the second session, we will focus on fiction filmmaking. We will write screenplays. Then, as directors, we will shoot our screenplays. Finally, we will discuss how to put fiction films together with editing.

At the end of each session, each filmmaker will take home a DVD of the film he or she created.

Full Session: June 18–July 27

Session I: June 18–July 6

Session II: July 9–July 27

Morning: 8:30 a.m.–1 p.m.

Instructor: Gita Kapila

Electronics

Open to students entering Grades 5–8

Learn about electronic components and the principles of electronics as you build many interesting and entertaining circuits like an automatic nightlight, flashing railroad lights, a police siren, a lie detector and many others.

You will learn basic construction techniques including direct wiring, breadboarding, and soldering components to circuit boards. Use your new knowledge as you design and construct an independent project of your choice. Past participants have constructed model houses with lights and ceiling fans, electric quiz games and even a burglar alarm for their bedrooms. If you like electric gizmos, then this is the class for you.

Please choose Session I or Session II. Repeats are not available.

Session I: June 18–July 6

Session II: July 9–July 27

Morning: 8:30 a.m.–1 p.m.

Materials Fee: \$100

Instructors: Mark Wagner and Michael Wong (Session II only)

Gertrude Stein meets Godzilla: The Sequel! (While Picasso and Darwin chase Dragonflies)

Open to students entering Grades 5–8

Designed and taught by veteran Laboratory School teacher, Mr. Philip Matsikos, this exciting three-week class brings a contemporary approach to the progressive educational tradition of John Dewey's Laboratory Schools.

Moving between and ultimately fusing ecology and environmental science with writing and visual art, students in this class create individual drawing and writing journals, while simultaneously

designing and creating nature inspired art projects.

Students will embark on a journey through Hyde Park, discovering the surprising natural richness of the area. The interconnectedness of flora and fauna will be studied as a backdrop for our environmental exploration. Students spend a part of the day outdoors observing, gathering data, and collecting a variety of plants and animals. Personal observations, written and sketched, are enriched by further study when we head back to our classroom/studio. After a full day of activity, an afternoon film festival, our "popcorn feature", introduces the class to a wonderful cinematic tradition of films from the 1950's and 60's depicting gigantic creatures overrunning various urban centers.

A variety of creative writing and art projects will provide the foundation for students to use their knowledge and imagination to produce enormous artworks by the program's conclusion. Activities are designed to move between individual and team projects, pursuing a rare and exciting union of writing, science and art making.

Session II: July 9–July 27

Time of Day: 10:30 a.m.–3 p.m.

Instructor: Philip Matsikas

Pastry Delights

Open to students entering Grades 6–8

Make your summer camp experience extra delicious with this hands-on pastry camp. Learn how to make sweet creations from scratch. You will learn the fundamentals of pastry and the techniques used in creating basic preparations such as pastry dough, creme anglaise, pastry cream, mousse, and buttercream. Make fruit tartlets, cake, crème brûlée, cupcakes... and much more. Whisk away and be prepared to eat.

Full Session: June 18–July 27

Session I: June 18–July 6

Session II: July 9–July 27

Afternoon: 1–3 p.m.

Materials Fee: \$40 per session

Instructor: Cecilia Collar

Middle & High School



Chefs Cook from Scratch

Open to students entering Grades 6–8

Make your summer camp experience extra scrumptious with this cooking camp. You'll learn the fundamentals of cooking, including skills like chopping, grilling, sauteing, baking techniques, presentation, table setting and manners, while familiarizing yourself with a diversity of foods. We will build self-confidence, creativity, and a life-long skill.

No lunch boxes needed! We'll have a full sit-down lunch at the end of each day, during which we'll get to appreciate and evaluate our own cooking. Menus often include meat, poultry, and fish.

Full Session: June 18–July 27

Session I: June 18–July 6

Session II: July 9–July 27

Morning: 8:30 a.m.–1 p.m.

Materials Fee: \$50 per session

Instructor: Cecilia Collar

Photography

Open to students entering Grades 6–8

As digital imaging becomes more and more widespread it becomes easy to forget the rich history of photography, and how fun the old-fashioned, tactile processes are. This class will acquaint students with the magic of the darkroom, as they learn the entire process of creating images. Students will learn how to create a properly exposed photograph and how the same principles apply no matter what type of camera is used. We will

develop film and print from the resulting negatives on black and white paper. A 35mm SLR camera is available for each student to use during class time.

Full Session: June 18–July 27

Session I: June 18–July 6

Session II: July 9–July 27

Afternoon: 1–3 p.m.

Instructor: Candice Latimer

Middle School Math Basics

Open to students entering Grades 6–8

The first level of these classes covers the necessary skills to be successful in taking a math class which requires competency in whole numbers, fractions, decimals, order of operations, ratio and proportion, percent topics, measurement, elementary geometry topics, introductory graphical representation, introductory signed number manipulation and introductory basic equation solving.

Students who secure these skills move forward to examine concepts in signed numbers, factoring, equation solving, inequality solving, graphs, functions, relations, polynomials, parallelism, perpendicularity, congruence, and polygons. Additionally, taking notes in mathematics will be emphasized. Special emphasis will be on processing and solving word problems.

A placement test will be administered prior to the start of Summer Lab to assist in homogeneous ability grouping.

Full Session: June 18–July 27

Session I: June 18–July 6

Session II: July 9–July 27

Afternoon: 1–3 p.m.

Instructors: Julia Kornienko and Meghan Gilbert

Comics Workshop

Open to students entering Grades 6–8

Do you like to read comics, graphic novels or manga? Have you ever wanted to make a comic book of your own? Comics workshop provides young artists with a unique opportunity to learn how to write, draw, and self-publish their very own comic books. From the spark of an idea to a book you can hold in your hands, we will cover every step of the comic making process. This fun, fast-paced class will teach students how to use old tools, like dip pens and inkwells, and new tools, like laptops and photoshop, to tell each student's unique story. The class ends with a "mini-comic convention" where we invite friends, family, and the rest of Summer Lab to take home copies of the work we've made. No special drawing ability is necessary, but enthusiasm and imagination are a must.

Please choose Session I or Session II. Repeats are not available.

Session I: June 18–July 6

Session II: July 9–July 27

Morning: 8:30 a.m.–1 p.m.

Instructor: Sam Sharpe

MGYA Literature, Projects, and Authors

Open to students entering Grades 6–8

Because of the explosion of Middle Grades and Young Adult literature, students have a myriad opportunities to read novels with characters and plot lines developed specifically for them. Young readers can identify and relate to characters experiences, which can provide an understanding in and around their world.

Choose and read at least one MG or YA novel each week. As students read, they will participate in book discussions and literature circles, lead book talks, write and publish in a variety of ways. Students will write more detailed summaries, book reviews, and literature analyses with specifically-cited passages.

Students will produce a weekly project about the book they are reading each week. Students can create a book trailer, produce a book cover with an inside cover description, or write a letter to an author.

Students will benefit from at least one visit from a Middle Grades or Young Adult author who will discuss their latest novel and read a passage from that novel.

Session I: June 18–July 6
Afternoon: 1–3 p.m.
Instructor: Andrew Shilhanek

Be the Change

Open to students entering Grades 6–8

Have you ever noticed the bumper stickers that say, “Be the change that you wish to see in the world”? Is there something that really interests you, something that you’d like to get involved with or some difference you would like to make in your world, but maybe aren’t sure how to get started? In this hands-on class, we’ll look at the ways in which social change occurs. Most importantly, we’ll find ways we can get into action to help make our world a better place.

In and around Chicago, students are acting to make a difference. They are protecting water quality in our Great

Lakes and restoring natural dune and prairie habitats. They are planting community gardens and working in food banks, volunteering in hospitals, and helping out at animal shelters. They are helping new immigrant families make new homes in our city and country.

In our field trips, we will visit not-for-profit organizations to learn about their missions, explore how students can make a difference, and, whenever possible, work onsite, alongside other volunteers. In class, we’ll explore more about our strengths, curiosities, and effective ways of working with others. Students will write journal entries documenting their experiences. All students will contribute to a class blog/website and complete a final project based on their individual interests. We hope you will leave with an idea of something you can do in the coming year to explore your interests in helping others.

Session I: June 18–July 6
Morning: 8:30 a.m.–1 p.m.
Instructor: Kevin Van Eron

Chess

Open to students entering Grades 6–8

Chess campers will learn the royal game from our professional chess instructors. Campers will participate in various chess activities, including tournaments, blitz chess, lectures, bughouse chess, and safe online play. The instructors will cover opening strategies, endgames, tactics, and strategies. Lessons are interactive and fun. The program is appropriate for all levels, including absolute beginners and accomplished scholastic tournament players.

Full Session: June 18–July 27
Session I: June 18–July 6
Session II: July 9–July 27
Afternoon: 1–3 p.m.
Instructor: Chess Scholars

Advanced Lego Robotics

Open to students entering Grades 6–8

Lego Robotics is based on the STEM Enrichment program in the subject of Robotics to enhance interest in science, math, engineering, and technology. Students will work as a team to design, build and program a Lego EV3 robot

to compete against another team in a friendly competition such as the Sumo challenge or Green City. Teams design their own solution to a current scientific question or problem and build autonomous LEGO robots that perform a series of missions. Through their participation, they will use science and math skills, like calculating gear ratios, develop valuable life skills and discover exciting career possibilities. The focus will be problem solving, creative and analytical thinking while building a robot and implementing their own programming to complete specific challenges. This camp is great for one or two sessions. Students may enroll in both sessions and will progress to a higher level working on new ideas and projects.

Full Session: June 18–July 27
Session I: June 18–July 6
Session II: July 9–July 27
Morning: 8:30 a.m.–1 p.m.
Afternoon: 1–3 p.m.
Instructor: Martin Pieters

English as a Second Language

Open to students entering Grades 6–9

Learn or improve your English with a fully qualified ESL instructor with over twenty years of experience. A variety of methods will be used, including Total Physical Response (gestures, pointing, labeling), role-play with scripts, games and songs. Adventures beyond the classroom will take students into the community to local areas of interest where they can listen and practice the English language.

Session II: July 9–July 27
Afternoon: 1–3 p.m.
Instructor: Will Walter

Dungeons & Dragons Adventures

Open to students entering Grades 6–9

As you are exploring a dark cavern with your sword drawn, an unexpected gust of wind suddenly extinguishes your torch and you find yourself in complete darkness. As you struggle to relight your torch you hear the heavy breathing of some sort of beast approaching from behind. What happens next? Register for Dungeons & Dragons Adventures and find out! In this camp participants will use their imaginations while working

cooperatively and creatively to solve problems, tell a story, and explore new worlds through playing the fantasy role-playing game, Dungeons & Dragons. Both new players and experienced players are welcome.

Session I: June 18–July 6

Session II: July 9–July 27

Afternoon: 1–3 p.m.

Instructor: Matt Maciak

Say What? Writer's Workshop

Open to students entering Grades 7–8

What do you have to say? How do you want to say it?

This course will help you communicate more effectively through writing. Through games and activities, peer workshops, and individual conferences with the teacher, students will learn and practice fundamental writing skills that transfer to a variety of writing tasks.

Session one will focus on narrative writing. Students will mine their own observations and experiences to find and develop stories to share. With guidance from mentor texts, students will learn how to incorporate good details, dialogue, and literary elements. They will learn how to structure, organize, and revise their stories.

Session two will focus on argumentative writing. Students will learn the components of an effective argument and how to support their positions with solid reasons and evidence.

Throughout the course students will participate in mini-lessons to learn and review important grammatical rules.

Full Session: June 18–July 27

Session I: June 18–July 6

Session II: July 9–July 27

Morning: 8:30 a.m.–1 p.m.

Instructor: Rachel Nielsen

The REAL Cost of Your T-shirt: Producers, Consumers and the Inner Workings of Globalization

Open to students entering Grades 7–9

A Chinese clock wakes you up each morning. You eat Colombian bananas for breakfast. Your German car takes

you to school, and on your commute, you play on your smartphone, a conglomerate of metals and minerals from different African countries. We live in a globalized society, but what are the benefits and costs of our connectivity? How do the products we consume, such as clothes, food and devices, impact our local and global communities?

In Session I, we'll study globalization from the perspectives of various stakeholders. By examining case studies and reading novels, we will learn how the global transfer of goods and information impact how people think, act and live.

In Session II, we'll prepare for and enact a Model United Nations simulation in which students, as ambassadors of different countries, will deliberate on resolutions to global problems that will mutually benefit all countries.

The course involves research, reading, critical thinking, deliberation, and writing.

Full Session: June 18–July 27

Session I: June 18–July 6

Session II: July 9–July 27

Morning: 8:30 a.m.–1 p.m.

Instructors: Joy Parham and Iris Yin

How Machines Learn

Open to students entering Grades 7 - 9

We are increasingly surrounded by machines that emulate abilities that we thought were human-only: they transcribe speech, recognize faces, play games, navigate cars, and even have conversations. They do all this without being explicitly programmed. Instead, they learn from observation and experience. In this 3-week course, we embark on a journey to understand how these feats are possible.

This course showcasing machine learning is activity-based. We start with games to learn the basic ideas and understand what it even means to obtain knowledge from observations. We then pick a project topic, for instance, identifying facial emotions in photographs, determining the theme of a social media post, or playing connect-4. The project is divided into stages: collecting

and exploring data, choosing features, selecting a good model (we consider linear separators and neural networks), and training the model to conform to the collected data without overexplaining it—a key concept of machine learning. Participants are divided into groups to explore and implement each stage of the project on a computer, using interactive software. In the end, a friendly competition between groups determines which designs work best on new data, to see how well their machines have learned from observations. Participants collect a portfolio (notes, pictures, and data) of each intermediate stage as well as of their group's final performance. One day of the course is also scheduled to be a field trip to an academic or industrial lab (or both), to see machine learning in action.

Session I: June 18–July 6

Morning: 8:30 a.m.–1 p.m.

Instructor: Mesrob Ohannessian

Cycling Chicago

Open to students entering Grades 6–12

Join our "Tour de Chicago" as we explore the city by bicycle! On our pedaling field trips each week we'll be traveling along Chicago's extensive network of bike paths to exciting destinations. Between our field trips students will participate in mechanic workshops where they will learn to adjust and maintain a cycle, discuss bike safety, solve different bicycle problems, and try out various types of bikes, such as mountain bikes, racing bikes, and tandems.

Students should bring a working bicycle, helmet, and bike lock to class and wear comfortable clothes (cycling shorts are not necessary). Arrangements can be made to leave bikes overnight at school if desired.

Full Session: June 18–July 27

Session I: June 18–July 6

Session II: July 9–July 27

Morning: 8:30 a.m.–1 p.m.

Instructor: Thomas Casanova

International students and schools, please contact us to discuss a customized program.
Summerlab@ucls.uchicago.edu

High School

Daily attendance in classes for high school credit is required, since a full year's credit is being delivered in six weeks. Any absence may place credit for the class in jeopardy; unavoidable absence will be managed case-by-case and will depend on the student's ability to make up for missed material.



Geometry

Open to students entering Grades 9–10
Pre-requisite: Algebra 1 and placement by the department.

This class is designed for students who have already completed a year of algebra in eighth grade or high school and wish to advance in mathematics. This is a full course in high school geometry and is not an enrichment course, nor is it designed as a preparatory course for high school geometry. This course includes congruence and similarity, properties of polygons, circles, and solids, and proof. Both Euclidean and algebraic approaches are explored. Resources used in the course include a textbook and *Geometer's Sketchpad*—a computer software package.

Please note: Lab students have priority for this class. Written recommendation from current teacher is required. Final enrollment is not known until early June. Non-Lab students who hope to receive credit at their school should investigate this possibility before registering.

Attendance Policy: Students who miss more than two days must drop the class. No refund will be available after the first week.

Full Session: June 18–July 27
Morning: 8:30 a.m.–12:30 p.m.
Credit: 1 Unit of High School credit
Instructor: Joe Scroll

Secrets to High School Success

Open to students entering Grades 9–11
(Priority given to Lab Students)

High School is an exciting time for learning, discovering who we are, and developing strong skills that will carry us through future education, vocation, and life adventures. Unlike traits, such as eye color or height, skills like running faster or studying more effectively can be improved with practice. The more you practice a skill, the better you get and the more it becomes a part of who you are.

In this class we will explore how our brains work when it comes to learning and the amazing potential we have for planning, organizing, and reaching

important goals. Students will come to understand their unique learning styles, and add skills to their toolboxes, such as how to: focus more effectively, plan and organize, manage their stuff and work spaces, make good decisions and choices, tame the homework monster, calm stress and anxiety, and advocate for themselves. We'll share strategies and study tips for reading, writing papers, taking notes, and successful test taking, all while leaving room for flexibility and creativity.

The primary goal for this workshop includes helping students feel more confident in their personal plans for meeting the many demands of high school and making the coming academic year their best ever! We will learn through hands-on activities, practice real-life simulations and explore options for students to select the strategies that best suit their study styles and strengths.

Session II: July 9–July 27
Morning: 8:30 a.m.–1 p.m.
Instructor: Kevin Van Eron

Introduction to Computer Science

Open to students entering Grades 9–12
(Priority given to Lab Students entering ninth grade)

This course aims to help students more deeply understand what computers are and how they work. In the first half of the course students explore some fundamental and profound issues of computation. They will learn why computers must use zeros and ones to encode all information, how information can be encrypted, how modern networks are organized, and about the history of the world wide web. Students bolster their understanding of the modern web by learning how to code and style web pages from scratch. Much of their homework involves designing, coding, and posting web pages to their class web site. With a deeper understanding of the technology, students are asked to reflect on a variety of moral, ethical, and public policy issues that affect them every day. In the latter half of the course students gain a deeper appreciation for computational solutions to problems by learning how to write computer programs using JavaScript. Students write programs to solve problems in a variety of modern contexts, including writing programs to manipulate digital images.

Much of the work for the course can be completed in class, but students will be expected to do some work at home. They may choose to continue class projects on their own as well.

Please note: Students entering ninth grade who pass the summer course do not need to enroll in the required year-long course taken by all ninth graders at U-High.



Full Session: June 18–July 27

Morning: 8:30 a.m.–12:30 p.m.

Credit: 1/2 Unit of High School credit

Instructor: Sharon Harrison

Latin II

Open to students entering Grades 9–12

Latin II is a credit-earning course in the Latin sequence and is intended for students who have completed Latin I and wish to accelerate into Latin III in the 2018 academic year. The course will cover the Latin II curriculum, roughly ten chapters in *Lingua Latina Per Se Illustrata*. Required texts are *Lingua Latina: Pars I–Familia Romana; Exercita Latina I* and *Lingua Latina: Companion to Familia Romana*. This course, when completed successfully in sequence with Latin I, satisfies the high school graduation requirement.

Full Session: June 18–July 27

Morning: 8:30 a.m.–12:30 p.m.

Materials Fee: \$100

Credit: 1 Unit of High School credit

Instructor: Frances Spaltro

Academic Approach: SAT and ACT Test Preparation

Open to students entering Grades 10–12

Academic Approach is offering two three-week intensive standardized test preparation courses: the ACT course for Session I and the SAT for Session II.

Academic Approach emerged from a thorough evaluation by U-High administration as a preferred provider of this course. Academic Approach classrooms are more efficient and effective than other test preparation classrooms because of the level of customized teaching achieved through detailed diagnostic reports and extensive online and in-print coursework. Academic Approach tutors are warm and supportive teaching professionals who make a classroom experience academically enriching, fun, and effective in raising scores.

Each week will start with a diagnostic exam that will enable Academic Approach to tailor the teaching to the most common and immediate test preparation needs of the entire class as revealed by a score-report analysis. Classes emphasize the most relevant skills and effective strategies for test performance, and students can monitor their progress through detailed reporting.

On diagnostic test days, usually Mondays, the class will run 3 to 4 hours whereas daily classes are 2 hours only. Students should expect to complete 2 hours per week of homework.

ACT Prep: June 18–July 6

SAT Prep: July 9–July 27

Afternoon: 1–3 p.m.

Instructors: Academic Approach



Summer Lab on Stage

Open to students entering Grades 4–8

Full Session: June 18–July 27
Morning: 8:30 a.m.–12:30 p.m.

Summer Lab on Stage enters its sixteenth season as a unique Summer Lab program combining both acting and music into a theatre experience that is both fun and rewarding. Past Music Department Chair Katy Sinclair teams with Lab faculty scion Marc Piane, a former teacher at Lab and now a professional musician and jazz instructor, and Art Teacher Illia Mazurek to develop, stage, orchestrate, and choreograph the annual On Stage extravaganza. These pros draw additional choreography and improvisation resources from the world-class theater scene in Chicago, and students are more confident, more self-aware and better able to interact and collaborate with their fellow students as a result.

Summer Lab on Stage is a big confidence builder and a ton of fun. Life on the boards is like nothing else. Get ready for the driving pace of this energetic production as you'll be singing, dancing, and acting on the first day. A pair of matinees and an evening show for Summer Lab on Stage mark the culmination of students' summer successes.

Summer Lab on Stage is a six-week, morning (8:30 a.m.–12:30 p.m.) program. Most students will select an afternoon activity to fill out their schedule, and many will also select Summer Lab Sports Camps for the 3 p.m.–5:30 p.m. time period.



Summer Lab Theatre Ensemble

Open to students entering Grades 7–11

Summer Lab Theater Ensemble is our advanced theater and performance program for students who are serious about theater and musical theater. Summer Lab Theater Ensemble is an intensive program which will create a theatrical spectacle using Ovid's *Metamorphosis* as our source. The Greek and Roman Myths are timeless stories of transformation, packed with drama. There are amazing Roles to play: Icarus, Arachne and Athena, Medusa and Perseus, Orpheus and Eurydice, Persephone and Demeter, and of course, Hades. Be part of the creation of a new piece of Spectacle Theater which will include Songs, Dance, Acting, use of large scale puppets and objects. Together as an ensemble, we will devise, rehearse and perform this show in six weeks! We will work on auditioning, physical training, ensemble building, choreography, vocal training, stilting, and set building. Our production premieres in the state of the art Sherry Lansing Theater. Students admitted will have the privilege of working with a professional artistic director, acting coach, musician and choreographer, and a highly skilled design and tech team. This allows every

cast member to participate in all artistic elements of our production. Join us on this magical adventure as we create our own production of *Metamorphosis* in a safe, supportive and fun environment.

Summer Lab Theater Ensemble is selective enrollment and is audition-based. If you are interested in joining Summer Lab Theater Ensemble for Summer 2018, please submit an audition video to summerlabtheaterensemble@gmail.com.

Grades 9–11

Full Day: 8:30 a.m.–3:00 p.m.

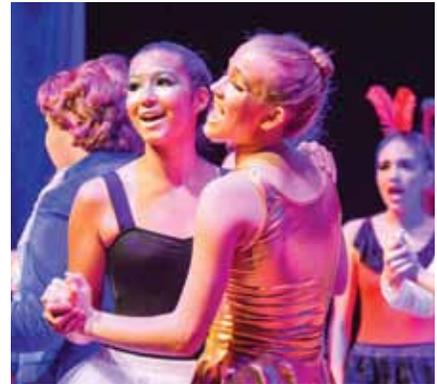
Grades 7–8 (who are also enrolled in Summer Lab on Stage)

Afternoon: 1:00 p.m.–3:00 p.m.

Audition and Submission Requirements:

Grades 9–11 i) One- to two-minute (no longer) song from any musical, plus ii) a one minute monologue or poem

Grades 7–8 i) One- to two-minute (no longer) song from any musical



Adventure Kids Day Camp

Open to students entering Grades 1–8

Full Session: June 18–July 27

Session I: June 18–July 6

Session II: July 9–July 27

Full Day: 8:30 a.m.–3 p.m.

Adventure Kids Day Camp adheres to the mission of the Laboratory Schools by offering a safe, high energy, and rewarding program based on the core values of trust, communication, creativity, and teamwork. Through this experience, Campers and Staff alike enhance their cooperative skills, self-confidence and leadership qualities. Every day is jam-packed with fun! The rewards are

as endless as the friendships and memories created.

Our Activities: Field Trips every Tuesday and Thursday, Specialty Classes, Swimming, Sports and Games, Arts and Crafts, All Camp Performances, Theme Weeks, Special Event Days and Local Adventures.



Field Trips

Water Parks, Great America, Sailing, Kayaking, Sky High, Go Karting, Pump it Up, Amusement Parks, Rock Climbing and other great Chicagoland attractions. Each year we try some new and bring back some old favorites.

Students entering Grades 6–8 will have an opportunity to attend our traditional overnight camping trip to Camp Duncan in July. Campers will experience all the adventures of camping, plus boating, blobbing, rock-climbing, and a high ropes course. Many see this as a definite highlight of the summer.

Specialty Classes

At various times throughout the summer, groups will participate in all that our Supervisors and Specialists have to offer. Some examples include cooking, spa day, gardening, sports conditioning, science experiments, yoga, music, dance and more! Some Specialty classes specifically offered to older groups include an opportunity to participate in outdoor adventures. Some of these options include fishing, paddle boarding, visits to Hyde Park's historic treasure known as the "The Point" located at the lakefront, and campus orienteering adventures.

Swimming

Campers will participate in swim lessons, games and free swim three days a week in our indoor pool.

Sports and Games

Adventure Kids take full advantage of the extraordinary athletic and other facilities at the Laboratory Schools, including a gymnastics room, dance studio, three gyms, arts and crafts center, tennis courts, soccer field, playgrounds, and more. Consistent with the core Adventure Kids values, all activities promote an all-inclusive, cooperative group dynamic.

Theme Weeks

Every week has a theme relating to the overall theme for the Adventure Kids year. Some of our favorite themes from years past include: Under the Sea, Chicago, Jungle Safari, Rock and Roll and many more.

AK Showtime and other Special Events

AK Showtime is our end of the session showcase of talents. Groups work together to develop creative, energetic, and fun dance routines that they get to perform on the last day of camp in front of their fellow campers, staff and an energetic crowd of fans. Parents are always invited to these awesome shows! Other Special Events include Luaus, Game Show Days, Barbecues, Flea Markets, etc.

Arts and Crafts

On Mondays, Wednesdays and Fridays, our art director will lead campers through themed projects in our on-site creativity center.

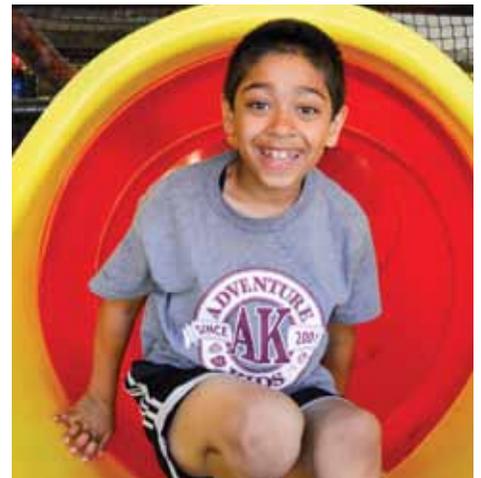
Our Staff

Adventure Kids Day Camp staff is made up of the most energetic and dedicated group of teachers and learning specialists that lead the counseling staff made up of college students, and high school students from the Laboratory School community and beyond. Many of our high school leaders have grown up in the Adventure Kids program themselves. They keep coming back.

Communication

Constant feedback from our staff, campers, and parents is one of our key Adventure Kids values. Prior to the start of each week, families receive the weekly bulletin loaded with information about special events, field trips, dress up days, etc. With the fast-paced, action-packed schedule of events, the bulletin, along with the online posted calendar, will help keep us connected. Suggestions, comments, and questions are always welcome in the Adventure Kids office year round.

“Love the **variety** of activities and the **organization** of the program.”



Fun in the Sun

Open to students entering Grades Nursery–8

Full Session: June 18–July 27

Session I: June 18–July 6

Session II: July 9–July 27

Afternoon: 1–3 p.m.

Students will indeed have a ton of fun under the sun!

Activities include arts and crafts, cupcake baking, slip 'n slide, soccer, jewelry making, barbecues, swimming, games such as capture the flag and musical chairs while under the care of engaging and experienced counselors.

Children in grades 3–8 will have swimming twice a week, while those in grades Nursery–2 will have water play in wading pools and sprinklers.

Spend the afternoon having a blast with friends while participating in action-packed activities.



Sports Camps

Open to students entering Grades Nursery–8

Full Session: June 18–July 27

Session I: June 18–July 6

Session II: July 9–July 27

Afternoon: 3 p.m.–5:30 p.m.



Summer Lab Sports Camps is a recreational sports camp for children of all ability levels. Love of the game, fair play, and good sportsmanship rank high among teaching and coaching objectives. All sports camps use Lab's state-of-the-art facilities.

Children entering Nursery through second grade will participate in a rotation of sports during each three-week period. The rotation consists of Little Big Leaguers, Little Strikers, Little Karate (K–2 only), and Fit Fun and Games.

Third through eighth graders may select one of the following camps which they will participate in for one or both three-week sessions. Students may choose from Basketball, Gymnastics, Soccer, Swim Instruction, Tennis, and Volleyball.

Basketball—Players will learn the fundamentals including ball-handling, passing, dribbling, shooting and team dynamics.

Gymnastics—Campers will be taught the fundamentals of tumbling, uneven bars, horse and beam. Positions covered will include hollow, arch, tuck, straddle, pike and lunge.

Soccer—Athletes will focus on the core technical components and learn fundamentals that include shooting, trapping, passing, receiving, and dribbling.

Swimming—This camp offers lessons for all levels—first time swimmer, novice swimmer, immediate and advanced swimmer. Skills mastered range from “drown proofing”/basic survival

and water rescue to floating, kicking, and the four competitive strokes (freestyle, backstroke, breaststroke, butterfly). Group games and drills will teach team-building skills. No experience necessary!

Tennis—Activity will emphasize basics through concentration on serves, footwork, forehand and backhand groundstrokes, slices, volleys, topspin, lob and drop shots.

Volleyball—This camp is designed to teach and develop volleyball skills for all experience levels. Beginner players will learn key fundamental skills such as passing, setting, serving and basic court movement. Experienced players will have the opportunity to strengthen their skills; such as overhand serving, spiking and blocking. All will participate in competitive scrimmage games.





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The Laboratory Schools are home to the youngest members of the University of Chicago's academic community. We ignite and nurture an enduring spirit of scholarship, curiosity, creativity, and confidence. We value learning experientially, exhibiting kindness, and honoring diversity.