

The Center for Gifted ~ Midwest Torrance Center for Creativity presents

2017 Worlds of Wisdom and Wonder

in **Wheaton** for Grades PreK-7

Innovative summer challenges for advanced learners!



Madison Elementary School
1620 Mayo Avenue
Wheaton

Session I - July 17-21

Rainforest Adventures (PreK-K)
Soaking Up Science (PreK-K)
Animal Stories and Art: From Peter Rabbit to the Pigeon (K-3)
Chemistry of the World (1-5)
Chess, Math, and Finch Robots (K-2)
Conquer the Cube (3-7)
Makerspace (4-7)
Monsters of the Microworld (3-7)
Mysterious Math (3-7)
Outer Space Escapades (K-2)
Play with Your Food! Creativity, Science, and Microwave Cooking (1-5)
Science and Star Wars (3-7)
Solder and Build: Electronics Lab (5-7)
Things that Fly, Float, and Flee: Mechanical and Animal (K-3)
Web Game Design with Scratch (3-7)
Writing, Art, and Calligraphy (4-7)

Session II - July 24-28

African Safari (PreK-K)
Stories and Art: The Caldecott Winners (PreK-K)
Balloonatics (3-7)
Chess for Beginners (K-3)
Chess Games and Strategies (3-7)
Creative Creatures (3-7)
Human Biology (1-5)
Lego Mindstorms Robotics (3-7)
Lego WeDo Robotics (K-3)
Makey Makey (3-7)
Mask Madness! (K-3)
Mathemagicians (K-2)
Readers Theater (1-7)
Science Experiments with Toys (K-3)
Slopes and Slides: Math and Engineering (3-7)
Stop-Motion Animation (3-7)



The Center for Gifted
a Northern Illinois University partner

Apply online at www.centerforgifted.org

Our Worlds of Wisdom and Wonder programs are designed for bright, motivated learners who welcome dynamic opportunities to explore diverse subjects in a challenging, creative environment. In all classes, hands-on activities and inventive modes of participation foster originality and imagination, evoking active involvement and discovery; the development of problem-solving skills, creativity, and critical thinking is inherent in the framework!

Applications are accepted online via our website, or by mail, email, fax (847-901-0179) or in person. \$80 deposit is required per session and will be applied to tuition. Applications have a \$4 processing fee per session, and some courses require lab fees (see course descriptions). Payments are fully refundable for withdrawals requested by the beginning of each session. Financial assistance is available.

New students require recommendations from educators (form is available on our website). Grade reports or test scores may be substituted.

Extended Care

Organized, nurturing supervision is offered every day, 8:00-9:00 a.m. at a cost of \$9 per hour.

Workshops for PreK - K

Students attend a single workshop each morning and/or afternoon.

African Safari: Embark upon a simulated safari through savannas, jungles, and deserts! Discover the rich diversity of African wildlife, from herds of wildebeests to shy mountain gorillas, from tall giraffes to small meerkats, through creative, hands-on activities.

Rainforest Adventures: Create a simulated rainforest with monkeys on vines, parrots in treetops, and pink dolphins in the Amazon River!

Soaking Up Science: Swish, squish, and splash as you experiment with everyday items and explore the world around you. Science is in your kitchen and on the playground, during a thunderstorm and at the beach—the possibilities are endless!

Stories and Art: The Caldecott Winners: Why is a book a Caldecott winner? How does the art express the story? How does the story inspire the art? What do you think of the stories and illustrations? Explore artistic styles found in the superbly illustrated winners of the Caldecott Medal and create your own illustrations.

Session I: July 17-21

Session II: July 24-29

Full Day: 9:00 a.m.-3:00 p.m.

Mornings Only: 9:00-11:40 a.m.

Afternoons Only: 12:20-3:00 p.m.

Early Care: 8:00-9:00 a.m.

Full Day: \$420

Half Day: \$210

Early Care: \$9/hr

Classes for K - 7

Students attend two classes each morning and/or afternoon, selecting their favorites among the course offerings. Note that for courses spanning several grade levels, students are scheduled with their age peers.

Animal Stories and Art: From Peter Rabbit to the Pigeon: Do you like animal stories? Especially stories with wonderful illustrations? Explore a rich diversity of stories and artistic styles. Express your own creative ideas through both writing and art.

Balloonatics: They're fun at parties, but you can use them for much more! Use balloons to learn about air pressure and Newton's Laws of Motion! Make a hot air balloon.

Chemistry of the World: Experiment with solutions, suspensions, acids, and bases as you travel the world of exploring chemistry.

Chess for Beginners: Intrigued by the game of chess? Learn how to play! Explore basic openings and end games. Enjoy trying out different strategies as you play chess with your classmates.

Chess Games and Strategies: Designed to challenge chess freaks of all calibers – from basic rules and simple strategies, to highly sophisticated schemes and end-game tactics. Test your skills as you challenge your peers!

Chess, Math, and Finch Robots: Interested in pursuing a variety of topics? Play chess, solve math puzzles, and program robotic Finches in a flexible learning environment.

Creative Creatures: Whimsical? Majestic? Feisty? What kind of creatures will you create? Draw inspiration from the amazing animals that inhabit our planet or rely wholly on your vivid imagination!

Conquer the Cube: Hone your STEM skills utilizing the iconic Rubik's Cube! Unlock the secrets to solving this mysterious block with tips and tricks direct from the experts. Use multiple cubes to create detailed mosaics by learning to think backwards, visualize pixels, and make circles out of squares!

Human Biology: Delve into the workings and operations of human biology, including heart, blood, and lungs.

Lego Mindstorms Robotics: Explore principles of engineering and programming! Employ gears, sensors, and motors to create robots. Work in engineering teams to innovate and experiment in designing, constructing, and programming your robots. (\$15 lab fee)

Lego WeDo Robotics: Build robots such as monkeys, alligators, and birds. Work from our building plans or create your own robots. Program actions and sounds. The possibilities are endless! (\$15 lab fee)

Makerspace: Let your imagination come to life in a space where trans-disciplinary learning, inquiry, risk-taking, thinking, crafting, tinkering, and wondering can blossom. (\$15 lab fee)

Makey Makey: Use this invention kit to turn everyday objects into touch pads. Artists, engineers, designers, and inventors all love the possibilities! (\$15 lab fee)

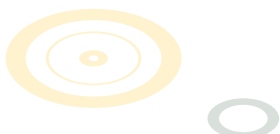
Mask Madness! Make masks that explode with creativity. Use a variety of materials such as plaster casting, recycled gallon bottles, and paper grocery bag masks. Paint, color, and embellish them with jewels, beads, and feathers. Become the character you have created!

Mathemagicians: From codes to magic squares and number tricks discover secret sequences, play math games, and investigate intriguing puzzles. Create your own number tricks!

Monsters of the Microworld: Explore the amazing universe invisible to the naked eye! (\$10 lab fee)

Mysterious Math: Explore mathematical topics not generally found in your math textbook. Think outside the box and be creative in your approach to math.

Outer Space Escapades: Blast off, astronauts, to an astronomically fun, factual, and fantastic exploration of the universe! Experience the joy of discovering, creating, and learning through an interdisciplinary approach integrating science literature, math, history, art, and drama.



Play with Your Food! Creativity, Science, and Microwave Cooking: Make cars out of vegetables and mold chocolate into fun shapes. Investigate food dyes, explore microwave cooking, and even learn a bit about nutrition! (1-5)

Readers Theater: Literature comes alive when you read it aloud. Include characters, narration, and setting. Choose favorites in reading and writing and see what happens when you put stories on stage!

Science and Star Wars: Lightsabers, levitating cars, and faster-than-light travel. All these things make **Star Wars** fun at the movies, but can they happen in the real world? Investigate and try to recreate some of the fun science from *Star Wars*.

Science Experiments with Toys: Discover mystery eggs, feely balloons, burping bottles, and crushing cans. Explore the science and wonder of toys via hands-on fun and lab experiments.

Slopes and Slides: Math and Engineering: Draw, build, and measure the slopes of slides and ramps. Engineer your own ramps course as you investigate variables that affect how objects move down various slopes.

Solder and Build: Electronics Lab: Construct a variety of electronic projects and robots from water alarms to photophobic micro-bugs to water alarms. (\$30 lab fee)

Stop-Motion Animation: From storyboard to photographing each incremental step to adding sound and special effects, use a digital camera and movie software to create your own unique stop-motion animation. (\$15 lab fee)

Things that Fly, Float, and Flee: Mechanical and Animal: Discover ways nature has influenced the design of man-made flying objects. Explore Bernoulli's scientific principles of flight by experimenting with airplanes, kites and rockets. Build a balloon hovercraft!

Web Game Design with Scratch: Want to know how flash games got their start? Create your own version of "Five Nights at Freddy's" or try something new of your choosing.

Writing, Art, and Calligraphy: Do you love to paint pictures with words? Express your creative ideas through free verse poetry and haiku. Use watercolors on rice paper to paint beautiful images to complement your poems. Enhance your writing with italic calligraphy.

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The Center for Gifted is a not-for-profit organization under IRC Section 501(c)(3)

Joan Franklin Smutny, Founder and Director

More Exciting Summer Opportunities!



Project '17

at Elmhurst College

for students entering grades 6-12

July 17 - August 4

FREE Transportation!

Worlds of Wisdom and Wonder

for students entering grades PreK-8

- Barrington - Elmhurst - Skokie
- Chicago - Glenview - Wheaton
- Crete - Naperville

see our website for details

Tinker-a-Thon!

at Elmhurst College

for students entering grades 1-5

July 17 - August 4

Enroll for one, two, or all three weeks!

Ingenuity. Inspiration. Imagination. Innovation.