

Worlds of Wisdom and Wonder

Innovative opportunities to challenge curious minds!

Chicago - Audubon

Audubon Elementary School
3500 N. Hoynes Ave.

9:00-11:40 a.m.
12:30-3:00 p.m.
9:00 a.m.-3:00 p.m.

I. July 25-29
II. August 1-5

\$195 a.m.
\$190 p.m.
\$350 full day



Session I - July 25-29

- Soaking Up Science (PreK-K)
- World Class Explorers (PreK-K)
- Art Around the World (K-5)
- Chemistry: It's a Gas! (3-8)
- Computer Graphic Design (3-8)
- Creative Writing (1-8)
- Lego Mindstorms Robotics I (3-6)
- Lego Mindstorms Robotics II (4-8)
- Lego WeDo Robotics I (K-3)
- Lego WeDo Robotics II (2-5)
- Let's Build a City! (K-4)
- Mad Scientists Loose in the Kitchen (K-2)
- Math to Boggle the Brain (K-2)
- Math Puzzles, Clues, and Codes (3-8)
- Painting the Impossible—With a Three Photo Composite (4-8)
- Pulleys, Levers, and Gears: Create Simple Machines (K-2)
- Roller Coaster Physics (3-8)
- The Amazing Mechanics of Marionettes (5-8)
- Theater Club (K-8)

Early Drop Off: 8:00-8:50 a.m.
\$8/day prepaid or \$9/day onsite

Session II - August 1-5

- Ocean Explorers (PreK-K)
- Stories and Art: The Caldecott Winners (PreK-K)
- Advanced Scratch, Electronics, and Game Design (4-8)
- Aquatic Biology (3-8)
- Bubble-Ology: Chemistry and Physics of Bubbles (K-4)
- Creating Games from Scratch (3-6)
- Create Lego Movies! (1-3)
- Create Stop-Motion Movies! (3-8)
- Finches: Robots Programmed with Snap (K-2)
- Finches: Robots Programmed with Scratch (3-8)
- Geometric Design and Construction (3-8)
- Math and Science of Building (K-4)
- Mixed Media Masterpieces (K-8)
- Princesses, Knights, and Dragons (K-2)
- The Sea and Me! (K-2)
- Trial by Jury (3-8)
- Writing Short Stories (3-8)

* Please note: Some courses require lab fees.



Click [HERE](#) to Apply Now

Grades PreK - 8

Igniting Creativity and Scientific Discovery!

www.centerforgifted.org

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

Joan Franklin Smutny, Founder and Director



The Center for Gifted
a Northern Illinois University partner

Advanced Scratch, Electronics, and Game Design: Expand programming possibilities for Scratch with MaKey, MaKey boards. Turn everyday objects into computer keys and create 3-D interactive games with Scratch. (\$10 lab fee)

Aquatic Biology: Create aquatic ecosystems. Explore tide pools, ponds, and coral reefs. Investigate ocean life, from weird and wonderful creatures that lurk in its depths to playful sea otters that frolic on its surface.

Art Around the World: Are you curious about different countries? Do you like exploring new ideas? Create art inspired by the creative endeavors of diverse cultures.

Bubble-Ology: Chemistry and Physics of Bubbles: Explore principles of air, density, and surface tension. Concoct solutions and experiment with their bubble making effectiveness. Will you create the biggest, the longest lasting, or the craziest shaped bubble?

Chemistry: It's a Gas! What is chemistry? Explore this question and investigate things that go pop, fizz, and swoosh!

Computer Graphic Design: Blend technology and art in a hands-on exploration of the field of graphic design. Create projects of your own design, such as comic strips, posters, logos, book covers, and cards.

Create Lego Movies! Using a digital camera, movie software, and Lego robots, create a stop-action movie. Experiment with special effects, sound, and titles. (\$15 lab fee)

Create Stop-Motion Movies! Discover all that goes into making a stop-motion movie! Begin with storyboarding, creating characters, and designing backgrounds and props. Using a digital camera and movie software, turn photographs into your own unique movie, complete with sound and special effects! (\$15 lab fee)

Creating Games from Scratch: Learn how to program a variety of different computer games in Scratch. Scratch is a free programming language developed at MIT that can be used to create a wide range of simple to complex games.

Creative Writing: Do you like to write? Hone your skills and heighten your imagination through free verse and a variety of stories in response to posters, magazines, books, CD's and films. See your stories and poems published in our creative writing magazine. Come and share your inspiration!

Finches: Robots Programmed with Snap: Discover the Finch, a new robot designed and developed at Carnegie Mellon's CREATE Lab. Be among the first in the Chicago area to experience this innovative technology!

Finches: Robots Programmed with Scratch: Discover the Finch, a new robot designed and developed at Carnegie Mellon's CREATE Lab. Be among the first in the Chicago area to experience this innovative technology!

Geometric Design and Construction: Create Escherian designs and kaleidoscopic visuals. Explore symmetry and transformations through folding Stealth Gliders, Raptors, and Space Rings. Develop geometric intuition through hands-on investigations.

Lego Mindstorms Robotics I: Tackle engineering challenges! Construct an autonomous robot from motors, wheels, gears, and a variety of different sensors. Program your robot to complete tasks of increasing complexity. (\$15 lab fee)

Lego Mindstorms Robotics II: Work with other advanced students to strategize and experiment as you design, construct, and program your robots. (\$15 lab fee)

Lego WeDo Robotics I: Explore principles of engineering and programming. Select from a dozen plans to build a robot such as an alligator, bird, or soccer player with Legos, motors, gears, and sensors. Connect your robot to a computer and program actions and sounds. (\$15 lab fee)

Lego WeDo Robotics II: Have you built most of the robots in the four WeDo books? Are you ready for an additional challenge? Apply the experience gained in Lego WeDo classes to designing as well as building robots. Experiment with different configurations—the creative engineering possibilities are endless! (\$15 lab fee)

Let's Build a City! What would your ideal city look like? Map out your city and create a model. Design parks, shopping districts, skyscrapers, and more. You're in charge!

Mad Scientists Loose in the Kitchen: Discover amazing chemical phenomena happening in your pantries and refrigerators. Explore sundry science through hands-on experiments.

Math and Science of Building: Tackle construction projects with such materials as string, straws, toothpicks, and marshmallows. Engineer and create buildings, towers, and bridges.

Math Puzzles, Clues, and Codes: Unravel mysteries of math! Ponder enigmatic puzzles and perplexors. Investigate logic-based problem solving. Come one, come all to crack codes in math!

Math to Boggle the Brain: Tackle logic puzzles, solve sequencing secrets, ponder math riddles, and create your own mind bogglingers.

Mixed Media Masterpieces: Create new and exciting artwork using both traditional and non-traditional materials. Deconstruct, manipulate and reimagine your artwork with a variety of media and non-art materials. Collage, drawing, painting, and assemblage are just a few of the ways you can create your masterpieces!

Ocean Explorers: Sail the ocean blue! Visit islands around the globe, investigate tidal pools, scuba dive around coral reefs, and discover the briny deep through imaginative interdisciplinary activities.

Painting the Impossible—With a Three Photo Composite: Compose your own painting combining images from three separate photos juxtaposed in such a way so as to create a realistic or surrealistic composition from your imagination. Using acrylic paint and at least three photos that could be combined with some degree of logic, you will be inventing your own scene that says so much more than any single photo could have said. The finished painting will be of your own creation and displayed on the final day of class.

Princesses, Knights, and Dragons: Discover your favorite princesses, bravest knights, and their adventures with dreadful dragons. Imagine life in a castle. Create your own stories and fairy tales. Celebrate with a medieval feast!

Pulleys, Levers, and Gears: Create Simple Machines: Explore physics through hands-on experiments as you discover how machines work and create your own!

Roller Coaster Physics: Explore forces centrifugal and centripetal, acceleration and velocity. Seek the ultimate balance of speed, thrills, and safety, as you design and construct working models and mini-coasters.

Soaking Up Science: Swish, squish, and splash as you experiment with everyday items to understand better the world we live in.

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. Create illustrations of your own.

The Amazing Mechanics of Marionettes: Learn the mechanics of joints in human figures, animals or creatures of your own imagination, while constructing your own marionette, string-activated puppet, using wood and leather materials that will allow the person, animal or creature to move about in a life-like manner when ready to tell their story on a marionette stage. To build the marionette, you will be working with wood, steel wire and other materials including cloth "skin," "fur" or "clothes," so the correct use of small power and hand tools, needle and thread, will be part of the class. The finished project will be able to perform with other marionettes in a play of your collaborative creation.

The Sea and Me! Discover the briny deep, from colorful sea horses to legends of giant squid. Create aquatic environments. Investigate coral reefs, tide pools, and arctic oceans. Marvel at the amazing variety of life in the earth's oceans.

Theater Club: Experience the exhilarating world of live theater! Develop characters as you play theater games and rehearse scenes, culminating in a performance for family and friends.

Trial by Jury: Understand the justice system by taking part in student-led courtroom trials. Argue for the prosecution or the defense, and then the next day be a witness or a judge! Learn to see both sides of an argument and think logically to make your case!

World Class Explorers: Discover wonders on every continent! Climb a volcano, stare down a kangaroo, build an igloo, and join a safari. Design, invent, and dramatize through hands-on activities.

Writing Short Stories: Everyone loves stories! Focus on the writing of different kinds of stories, such as adventure, fantasy, science fiction, and biographical fiction. See your stories published in our creative writing magazine.