

2018 Worlds of Wisdom and Wonder in Barrington

Unique summer challenges for advanced learners!

Session I: June 18-22

Course offerings for students entering grades K-8

Archaeology (3-8)
Breaking Laws of Physics: Discrepant Events (3-8)
Chess for Beginners (K-3)
Chess Games and Strategies (3-8)
Create Slime, Flubber, and Other Fun Polymers! (K-5)
Crime and Puzzlement (4-8)
Get Arithmeticked! (K-3)
Global Warming (K-3)
Let's Build a City! (K-4)
Princesses, Knights, and Dragons (K-5)
Sculpture Studio (3-8)
Solder and Build: Electronics Lab (5-8)

For students entering PK-K

Morning: World Class Explorers
Afternoon: It's a Bug's Life!

Session II: June 25-29

Course offerings for students entering grades K-8

Aquatic Biology (3-8)
Caldecott Winners and You! (K-2)
Creative Writing (3-8)
Digital Photography (4-8)
Electricity and Play Dough Circuits (K-5)
Flex Your Science Muscles! (4-8)
Kite Construction . . . and Flight! (3-5)
Lego Mindstorms Robotics (3-8)
Lego WeDo Robotics (K-4)
Physics of Light: Kaleidoscopes, Prisms, and Rainbows (K-3)
Pirate Maps and Treasure Hunts (K-3)

For students entering PK-K

Morning: Outer Space Escapades
Afternoon: Winter Zoology

Click here to APPLY NOW!

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info@centerforgifted.org | 847.901.0173 | www.centerforgifted.org

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Joan Franklin Smutny, Founder and Director



Course Descriptions

For students entering grades K-8

All courses below are offered both mornings and afternoons. Students enjoy two 80-minute classes each half day, selecting their favorites from among the course offerings. Note that for courses spanning several grade levels, students are scheduled with their age peers.

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. (3-8)

Archaeology: Embark on a simulated dig for ancient artifacts. Will you unearth enough artifacts to reconstruct a lost civilization? (3-8)

Breaking Laws of Physics: Discrepant Events: What just happened? How? Why? Be surprised by experiments with unexpected results that defy your understanding of the world. Investigate phenomena that venture beyond our world's so-called physical limits. (3-8)

Caldecott Winners and You! Why is a book a Caldecott winner? How do illustrations express a story? How does a story inspire an artistic response? Explore the rich diversity of stories and artistic styles of Caldecott Medal winners and be inspired to create stories and illustrate! (K-2)

Chess for Beginners: Intrigued by the game of chess? Learn how to play! Explore basic openings and end games. Enjoy trying out different strategies! (K-3)

Chess Games and Strategies: Designed to challenge chess enthusiasts of all calibers, whether learning new strategies or scrutinizing highly sophisticated schemes and end-game tactics. (3-8)

Create Slime, Flubber, and Other Fun Polymers! Experiment with different ways of making slime. Explore other slippery, stretchy polymers in the slime family. Have fun making and playing with polymers! (K-5)

Creative Writing: Do you like to originate ideas, create characters, design plots, and express yourself through writing stories and poems? Be inspired by various catalysts, such as posters, paintings, books, music, and class discussions, to write and share your creativity. (3-8)

Crime and Puzzlement: Unravel mysteries! Employ your powers of deduction to gather evidence and clues. Will you convince your peers of your conclusions, or will the perplexities remain forever unsolved? (4-8)

Digital Photography: Want to try your hand at being insta-famous? Try out our tips and tricks to the art of photography. Experiment with camera angles and macro lenses. Manipulate images to create various artistic effects. (4-8; \$15 lab fee)

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Barrington MS – Prairie Campus 40 E Dundee Road

Full Day: 9:00-3:00
Morning: 9:00-11:40
Afternoon: 12:20-3:00
Extended Care: 8:00-9:00

Full Day tuition per week: \$430
Half Day tuition per week: \$215
Extended Care: \$9 per hour

Processing fee per program: \$4 Lab fees: As indicated in course descriptions

Electricity and Play Dough Circuits: Create your own circuits using conductive and insulating play dough to light LED's, run motors, and play sound. Use meters and an oscilloscope to study electric current flow. Design and construct creatures incorporating LED's and sound. (K-5; \$15 lab fee)

Flex Your Science Muscles! Calling all curious minds! Tackle events featured at national science competitions, such as bottle rockets, crime busters, and roller coasters. Investigate chemistry, biology, physics, and other science disciplines. Taught by an experienced science team coach. (4-8)

Get Arithmetickled! Giggle your way through music, movement, science experiments, and games all geared to tickle your funny math bones. Discover pizza slice fractions, M&M multiplication, and marshmallow geometry. Explore symmetry and measurement as you create works of art. Delight in a creative approach to math and get arithmetickled! (K-3)

Global Worming: Discover the amazing worm! Explore its chemical and biological impact on our soil. Construct a worm world to save the earth. What can the lowly worm accomplish? (K-3)

Kite Construction . . . and Flight! What is a kite? How does it fly? Explore geometry and aerodynamics through tetrahedron kite construction. Families are encouraged to join us as we fly our kites on the last day. (3-5)

Lego Mindstorms Robotics: Create and engineer computerized robots. Employ gears, sensors, motors and various parts to make them faster, smarter, trickier, etc. Work in engineering teams to innovate and experiment. (3-8; \$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. (K-4; \$15 lab fee)

Let's Build a City! Explore a variety of cities and imagine how you would like yours to be. Then, create! Map out your city, design parks, shopping districts, skyscrapers, and houses, and build models. Combine engineering, math, literature, and innovation! (K-4)

Additional details and online application available at www.centerforgifted.org

Physics of Light: Kaleidoscopes, Prisms and Rainbows: Explore the magic, beauty and science of color via hands on projects and experiments with light, reflection, shadows, mirrors, and more. (K-3)

Pirate Maps and Treasure Hunts: Crack the clues to find the markers that reveal the trails that lead to the X that marks the spot! (K-3)

Princesses, Knights, and Dragons: Discover courageous princesses, brave knights, and their adventures with dreadful dragons, unique unicorns, and other magical creatures. Imagine living in a castle. Create your own stories and fairy tales. Celebrate with a medieval feast! (K-5)

Sculpture Studio: Shape, chisel, model, or otherwise express your wildest ideas. Experiment with both traditional and recycled materials. Will you become the next Michelangelo or Michelle Reader? (3-8)

Solder and Build: Electronics Lab: Construct a variety of electronic projects and robots, from photophobic micro-bugs to water alarms. (5-8; \$30 lab fee)

For students entering grades PK-K

Students enjoy a 160-minute interdisciplinary classroom experience each half day.

It's a Bug's Life: Bring your questions and your curiosity about the creepy crawlies you see outside. Investigate the lives of ants and beetles, butterflies and dragonflies. Delight in stories about bugs, such as *The Grouchy Ladybug*, *Chester Cricket*, and *Crickwing*. (Afternoon only)

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. (Morning only)

Winter Zoology: How do our furry, feathered, and scaly friends prepare for winter? How do they survive cold winters? What is winter like in different parts of the world? (Afternoon only)

World Class Explorers: Climb a volcano, stare down a kangaroo, cruise the Danube River, go on an African safari, scale the Great Wall of China, and ride the flow with penguins. Embark on an intercontinental expedition! (Morning only)

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