

Worlds of Wisdom and Wonder in Elmhurst

Unique summer challenges for advanced learners entering grades K-8!

at Sandburg Middle School, 345 E. St. Charles Rd., Elmhurst

Session I: June 17-21

Course offerings for students entering grades K-8

- Aquatic Biology (3-8)
- Art that Moves and Shakes (K-3)
- Artbotics (4-8)
- Chess Club (K-8)
- Computer Lab (3-8)
- Computer Lab without Boys (3-8)
- Fast Physics (3-8)
- Math Around the World (K-4)
- Optical Illusions and Other Ways to Trick Your Brain (2-8)
- Scientific Shenanigans (K-2)
- Tales Around the World (K-4)
- Writing and Art (3-8)

For students entering PK-K

- Explore the USA!
- Mad Scientists Loose in the Kitchen!

Session II: June 24-28

Course offerings for students entering grades K-8

- Animals in Art (K-4)
- Big Bang, Shooting Stars, Moon Rings (K-5)
- Chemistry Lab (3-8)
- Lego WeDo Robotics (K-4)
- Lego Mindstorms Robotics (3-8)
- Lego Mindstorms Robotics for Girls Only (3-8)
- Math, Clues, and Codes (K-3)
- Math Puzzles and Strategy (4-8)
- Musical Theater Revival (K-8)
- Origami, Paper Airplanes, and Beyond! (4-8)
- Robotics Lab (4-8)
- Rocketry (4-8)
- Short Stories (3-8)

For students entering PK-K

- Science Puzzlers
- Ocean Explorers



Enroll online at www.centerforgifted.org

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Joan Franklin Smutny, Founder and Director

In partnership with



SANDBURG
MIDDLE SCHOOL

Course Offerings

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.

Animals in Art: Create masterpieces involving your favorite animals and creatures from your favorite stories or from your own imagination. Use both traditional and unique media to bring your designs to life. (K-4)

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)

Art that Moves and Shakes: Discover the exciting world of kinetic art. Design, create, sculpt, and construct works of art evolving from 2D and 3D use of materials. (K-3)

Artbotics: Kinetic Art, Robotics, and Ingenuity: Bring together art, robotics, and computer science to create interactive, kinetic sculptures, in a setting that encourages a creative, imaginative approach to constructing and programming robots. (3-8; \$15 lab fee)

Big Bang, Shooting Stars, Moon Rings: Explore the universe and investigate celestial phenomena. Organize a space trip, or even invent a solar system! (K-5)

Chemistry Lab: Explore chemical properties through hands-on experiments. Investigate molecular structure. Experiment with solutions, solvents, and reactants, but don't blow up the lab! (3-8)

Chess Club: Analyze winning strategies, from opening moves to end-game tactics. Incorporate these strategies into your own chess games and watch your skills improve. (K-8)

Computer Lab: What is your interest? Coding? Stop motion? Drawing? Photo editing? Explore and develop your e-passion in this student-centered class. (3-8; \$10 lab fee)

Computer Lab for Girls Only: Same as Computer Lab, but no boys allowed. (3-8; \$10 lab fee)

Fast Physics: Explore forces centrifugal and centripetal, acceleration and velocity. Learn about energy and how you can manipulate the laws of gravity to maximize speed. (3-8)

Lego Mindstorms Robotics: Tackle various engineering challenges. Construct robots from motors, wheels, gears and sensors, and program them to solve challenges. (4-8, \$15 lab fee)

Lego Mindstorms Robotics for Girls Only: Same as Lego Mindstorms Robotics, but no boys allowed. (3-8; \$15 lab fee)

Lego WeDo Robotics: Build robots, such as an alligator, with Lego's, motors, gears and sensors. Program your robots using a computer. (K-4, \$15 lab fee)

Math Around the World: Embark on a mathematical tour around the globe. Count with Mayan numerals and Egyptian hieroglyphs. Explore African networks and sand drawings. Ponder the math of an Indian folktale. (K-4)

Math, Clues, and Codes: Come one, come all, to crack codes in math! Unravel mysteries of math. Investigate logic-based problem solving. Ponder enigmatic puzzles and perplexors. (K-3)

Math Puzzles and Strategies: Investigate logic-based problem solving. Tackle challenging problems and intriguing puzzles from math competitions. Equip yourself with useful strategies that will come in handy far beyond the classroom. (5-8)

Musical Theater Revival: Learn to communicate a story and its emotional content, humor, pathos, love, and anger through words, music, and movement, as you and your peers recreate scenes and songs from popular musicals. Explore your own talent as you experience the joy and excitement of creating this singular form of theatrical performance. (K-8)

Optical Illusions and Other Ways to Trick Your Brain: Could you possibly not notice a gorilla standing right in front of you? Can something be both hot and cold at the same time? Learn how to fool your brain. (2-8)

Origami, Paper Airplanes, and Beyond! Explore the fascinating and challenging world of paper folding. Test your skill at origami, modular origami, kirigami, paper airplane design, and deconstructed books. (4-8)

Robotics Lab: Construct various projects, such as a siren, a microbug, or a blinkie. Read schematic diagrams, decipher technical instructions, and learn basic circuitry. (This class requires soldering.) (4-8, \$30 lab fee)

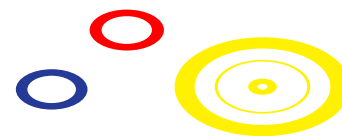
Rocketry: Design and construct a variety of types of rockets. Test-launch your prototype and gauge its properties for lift, speed and endurance. (4-8, \$10 lab fee)

Scientific Shenanigans: Explore physics, astronomy, nature, chemistry, and more. Discover a fresh, creative approach to science as you act in short science plays in addition to participating in hands-on science experiments. (K-2)

Short Stories: Everyone loves stories! What are your favorites? Focus on the writing of stories and the wide range of possibilities, such as adventure, fantasy, science fiction, biographical fiction, and fan fiction. (3-8)

Tales Around the World: How is the story of The Gingerbread Boy told in China? In Mexico? Explore folktales, fairy tales, and storytelling around the world. (K-4)

Writing and Art: Express your ideas through your favorite genres, like short stories, free verse, haiku, imagery, rhymes . . . you choose! Then discover how to enhance and enrich your writing with one-of-a-kind art. (3-8)



For students entering grades PK-K

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

Explore the USA! Travel the United States, from its mountain ranges and plains to its Great Lakes, sea coasts, deserts, and swamps. Discover America's people, cultures, and history. Explore the states through creative, interdisciplinary activities involving math, science, literature, art, and drama.

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

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.

Science Puzzlers: Challenge laws of physics and chemistry. Defy gravity to make a ball roll uphill, melt stuff in cold air, and explore other amazing scientific phenomena.

Sandburg Middle School, 345 E. St. Charles Rd., Elmhurst

Hours:
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 session: \$440
Half Day tuition per session: \$220
Processing fee per session: \$4.20
Extended Care: \$10 per morning
Lab fees: As indicated in course descriptions

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