

Worlds of Wisdom and Wonder in Naperville

Unique summer challenges for advanced learners!

Session I: June 18-22

Course offerings for students entering grades K-8

Breaking Laws of Physics: Discrepant Events (3-8)
Crazy Chemical Concoctions (K-5)
Electricity and Play Dough Circuits (K-5)
Geometry, Art, and Architecture (3-8)
Get Arithmetickled! (K-3)
Lego Mindstorms Robotics (3-8)
Lego WeDo Robotics (K-4)
Microbiology (3-8)
Motors, Mechanics, and Engineering (4-8)
Physics of Light: *Kaleidoscopes, Prisms, and Rainbows* (K-3)

For students entering grades PK-K

Morning: Science Explorers

Afternoon: Outer Space Escapades

Session II: June 25-29 Innovation Creation Lab

For students entering grades 1-8

- Engineering challenges
- Robotic explorations
- Science experiments
- Artistic endeavors

Create, design, construct, discover!



Click here to APPLY NOW!

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Joan Franklin Smutny, Founder and Director



Course Descriptions

Session I June 18-22

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.

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)

Crazy Chemical Concoctions: Experiment with strange brews and observe chemical reactions. Analyze mystery powders and discover secret ingredients in a hands-on chemistry lab. (K-5)

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)

Geometry, Art, and Architecture: Explore 2D and 3D design using a variety of materials. Consider recent architectural achievements in Chicago. Study the work of such innovators as architect Frank Lloyd Wright and artist M.C. Escher. Develop an understanding of geometric principles underlying architectural structure and artistic design as you create your own 2D and 3D designs and structures. (3-8)

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. There will be much to see, hear, smell, touch and taste as we get arithmetickled! (K-3)

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)

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Prairie Elementary School 500 South Charles Ave., Naperville

Full Day: 8:30-2:30
Morning: 8:30-11:10
Afternoon: 11:50-2:30
Extended Care: 7:30-8:30

Tuition (per week):
Full Day \$430
AM or PM Only \$215
Extended Care: \$9/hr

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

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! (K-4; \$15 lab fee)

Microbiology: Delve into the unseen world! Investigate microscopic life, grow bacterial gardens, and study fungi and algae. Just how disgusting are drinking fountains? Or your dirty socks? Swab them and find out! (3-8)

Motors, Mechanics, and Engineering: Tackle rapid prototyping design challenges. Experiment with forces and motion as you design, build, and test your project. How well does your prototype work? Are you satisfied? Or would you like to tweak it . . . then experiment again . . . then tweak it some more . . . ? (4-8; \$20 lab fee)

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)

For students entering grades PK-K

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

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. *Afternoon only.*

Science Explorers: Investigate sundry sciences and explore amazing scientific phenomena in a hands-on lab. Discover various sciences through creative, interdisciplinary activities. *Morning only.*

Session II June 25-29

For students entering grades 1-8

Innovation Creation Lab:

What inspires you to create? Do you like to design, construct, hammer, sew, paint, or experiment? Do you like robotics or computer programming? Learn new skills and sharpen your current ones. Bring your imagination and ideas or just come and be inspired by the abundance of materials and resources provided. Explore new activities each day or choose to pursue a topic in depth for several days as you thrive in the freedom to discover, explore, and experiment!

All students will enjoy hands-on, student-centered discovery. Activities, builds, and creations will be student led, facilitated by expert, creative teachers, who will introduce several new options each morning and each afternoon. According to their activity choices, students may move among different classrooms, among different activities within the same classroom, or focus in depth on a single project. They may choose to work with other students or individually, alongside their age and/or interest peers. (\$20 lab fee)



Additional details and online application at

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