



Great Summer 2010  
**Science Day Camps**

**NEW** **Preschool and High School Camps!**

2010



Great Summer  
**Science Day Camps**

**Camps for kids pre-K through high school!**



**REGISTER ONLINE!**  
[GreatScience.com](http://GreatScience.com)

## Discover the Young Scientist in You!

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### Frequently Asked Questions

THANK YOU TO THE FOLLOWING GENEROUS SUPPORTERS:



## How to Register

### 1. Online – GreatScience.com

Please register each child separately.  
Full payment is due at time of registration.

### 2. Phone – (216) 621-2400

Mon-Fri; 9 am - 5:30 pm

#### Registration fee

A \$4 registration fee will be added to each camp session.

#### Refund policy

Cancellations must be received 14 days prior to the start of your camp session. A \$25 administration fee will be withheld.

#### Cancellation policy

Great Lakes Science Center reserves the right to cancel any camp two weeks in advance in case of insufficient registration and will provide a full refund.



# What are YOU doing this summer?

Great Lakes Science Center's exciting Great Summer Science Day Camps are back and better than ever! This year, we've got camps at the Science Center downtown, Laurel School's Butler and Lyman Campuses, and at Camp Y-Noah in Akron. We've got camps **for kids**



**in grades K-8, plus NEW Preschool Camps and the High School Summer Science Institute!**

Our **hands-on science camps** let kids build and program LEGO® robots, explore the night sky, create icky and sticky concoctions, design spy gadgets and more! With camp topics ranging from "Amusement Park Science" to "Wizard Science," from "Extreme Engineering" to "LEGO NXT: Inventor," there's no end to the scientific fun!

**All camps are taught by certified teachers or professionals in the science field.** Through authentic hands-on experiences, your child will build a strong foundation in the sciences and ignite a passion for life-long learning!

**Look inside to see all we have to offer!**

**NEW**

Great Lakes Science Center is **now offering half-day preschool summer camps!** All camps are taught by certified teachers or professionals in the science field.

### Gadgets & Gizmos

**Dates: June 28 – July 2 or July 26 – 30**  
**Time: 9 – 11 am or 12:30 – 2:30 pm**

Explore the science of movement! Build gadgets and gizmos that fly, spin, wobble and roll. Learn about simple machines and take a peek inside household objects. \$105 (\$85 for members)

### Icky Sticky

**Dates: June 21 – 25 or July 19 – 23**  
**Time: 9 – 11 am or 12:30 – 2:30 pm**

Mix up cool concoctions that are icky, sticky and gross! Will your mixtures fizz, bubble, or explode? Mix, pour and stir your way to chemistry fun! \$105 (\$85 for members)

### Sense-Sational Science

**Dates: July 5 – 9 or August 2 – 6**  
**Time: 9 – 11 am or 12:30 – 2:30 pm**

Perform experiments that test your ability to taste, touch, see, hear and smell. Follow a scent trail, create a touch book and explore light and sound exhibits! \$105 (\$85 for members)

**SAVE \$10**

*All afternoon preschool sessions are discounted \$10 from the listed price.*

# Pre-K

### Sun, Moon and Stars

**Dates: June 14 – 18 or July 12 – 16**  
**Time: 9 – 11 am or 12:30 – 2:30 pm**

Explore the night sky and learn about planets, constellations, comets and more! Hear stories about the sky and experience our STARLAB Portable Planetarium! \$105 (\$85 for members)



### Awesome Astronauts

**Dates: June 21 – 25 or July 26 – 30**  
**Time: 8:30 am – 3:30 pm\***

Learn about the planets, sun and moon. Build and launch a rocket and train to become an astronaut! Plus explore the STARLAB Portable Planetarium! \$205 (\$185 for members)

### Chemical Connections

**Dates: June 28 – July 2 or August 2 – 6**  
**Time: 8:30 am – 3:30 pm\***

Experiment with acids and bases, make slime and solutions that glow in the dark! Mix, pour and stir concoctions that change before your eyes. \$205 (\$185 for members)

### Gadgets & Gizmos

**Dates: July 12 – 16 or August 16 – 20**  
**Time: 8:30 am – 3:30 pm\***

Build gadgets and gizmos that fly, spin, wobble and roll! Learn about simple machines and take a peek inside household objects. \$205 (\$185 for members)

### Gross Out!

**Dates: July 5 – 9 or August 9 – 13**  
**Time: 8:30 am – 3:30 pm\***

Belches, boogers and blisters. Worms and insects. Discover the biology and chemistry behind these and other disgusting stuff! Campers will take a field trip to Cleveland Metroparks Zoo. \$230 (\$210 for members)

*Pre-ordered box lunches are available for \$5.50 per day.*

*\* Before-and after-care options available from 7:30 – 8:30 am and 3:30 – 5:30 pm. Before-care: \$25/week. After-care: \$50/week*



### Storybook Science

**Dates: June 14 – 18 or July 19 – 23**  
**Time: 8:30 am – 3:30 pm\***

Enjoy fairytales, folktales and stories. Perform experiments and participate in activities that explain the science in our favorite tales. New stories selected for 2010. \$205 (\$185 for members)

.....  
“ We will definitely be back next year!”

2009 Camper Parent

# K-1

### Girls Only: Science that Sparkles

**Dates:** July 26 – 30  
**Time:** 8:30 am – 3:30 pm\*

Explore the physics of light and color as you reflect, catch and manipulate light waves. Learn how your eyes and brain work together to perceive light as you study objects that shimmer like stars, gems and butterflies. You'll also get to work alongside female scientists! \$205 (\$185 for members)

### GLSC to the MAX

**Dates:** June 14 – 18 or August 16 – 20  
**Time:** 8:30 am – 3:30 pm\*

Have you ever wanted to travel to space, swim with dolphins or see exotic animals? Start each day by viewing a film in our GIANT OMNIMAX Theater! Spend the rest of the day doing science experiments and activities related to the film you watched. \$225 (\$205 for members)

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### Junior Engineer

**Dates:** July 19 – 23  
**Time:** 8:30 am – 3:30 pm\*

What do engineers do? Explore various types of engineering, learn about the structure of bridges and buildings, illuminate a light bulb, design an airplane, create your own city and more! \$205 (\$185 for members)

### LEGO NXT: Alternative Energy

**Dates:** July 5 – 9  
**Time:** 8:30 am – 3:30 pm\*

Race against other teams as you build and program a LEGO robot that installs solar panels, places wind turbines, builds hydro-dams and more! Learn where your power comes from and how the Science Center uses alternative energy. \$215 (\$195 for members)

### LEGO NXT: CSI

**Dates:** June 28 – July 2 or Aug. 16 – 20  
**Time:** 8:30 am – 3:30 pm\*

Build and program a LEGO NXT robot to help develop a security system and keep a famous painting from being stolen. Investigate a crime scene and gather clues with your robot. Keep the painting safe or figure out "who dunnit!" \$215 (\$195 for members)



### LEGO NXT: Inventor

**Dates:** August 9 – 13  
**Time:** 8:30 am – 3:30 pm\*

Learn to build robotic arms and roving bots! Learn how to use motors and sensors. Work as a team to design and build your own robot invention! \$215 (\$195 for members)

### Messy Mixtures

**Dates:** July 5 – 9 or August 9 – 13  
**Time:** 8:30 am – 3:30 pm\*

Will it fizz, bubble or explode? Is it icky or sticky? Observe physical and chemical reactions as you mix and pour messy mixtures. Make your own slime, paint and lava lamps! \$205 (\$185 for members)

### Planet Patrol

**Dates:** July 12 – 16  
**Time:** 8:30 am – 3:30 pm\*

How many moons does Jupiter have? What planet has the most extreme weather? Explore these and other questions as you learn about the eight planets in our solar system. View the night sky in our STARLAB Portable Planetarium. Take a field trip to NASA Glenn Research Center! \$230 (\$210 for members)

### Science Explorer

**Dates:** August 2 – 6  
**Time:** 8:30 am – 3:30 pm\*

This session is one GIANT science experiment! You'll enjoy discovering the fields of engineering, chemistry, physics, astronomy, biology and more! Perform a variety of our favorite experiments and learn about the different branches of science. \$205 (\$185 for members)

Pre-ordered box lunches are available for \$5.50 per day.

\* Before-and after-care options available from 7:30 – 8:30 am and 3:30 – 5:30 pm. Before-care: \$25/week. After-care: \$50/week

### Spy Science

**Dates:** June 21 – 25  
**Time:** 8:30 am – 3:30 pm\*

Sneak your way through camp as you learn the science behind codes, invisible ink and disguises! Design spy gadgets and build an alarm system to protect an exhibit. Parts of this camp will take place on the Steamship *William G. Mather*. \$205 (\$185 for members)

### Superhero Science

**Dates:** July 26 – 30  
**Time:** 8:30 am – 3:30 pm\*

Discover the world of superheroes as you create your own super-identity. Learn how bats see in the dark, make your own incredible elastic slime and perform freezing experiments. (Superhero costumes optional.) \$205 (\$185 for members)



# 2-3

# 2-3

### Amusement Park Science

**Dates:** July 12 – 16  
**Time:** 8:30 am – 3:30 pm\*

Experiment with friction, inertia and momentum. Use design and engineering skills to create miniature models of your favorite rides. Enjoy a day gathering data and riding rides at Cedar Point Amusement Park. \$250 (\$230 for members)

### Astronomy: To Infinity and Beyond

**Dates:** June 21 – 25  
**Time:** 8:30 am – 3:30 pm\*

Learn about stars, comets, meteors, black holes and more. Spend time in our STARLAB Portable Planetarium and learn how to navigate the summer sky. Take a field trip to NASA Glenn Research Center! \$230 (\$210 for members)

### Extreme Engineering

**Dates:** August 2 – 6  
**Time:** 8:30 am – 3:30 pm\*

Explore the exciting world of engineering by designing and making projects that solve real-world problems. Learn about extreme engineering projects, build a structure to survive the forces of nature and design a city of the future. \$205 (\$185 for members)

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**Dates:** July 19 – 23  
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Learn the science behind crime scene investigation. Dust for fingerprints, analyze handwriting, test mysterious powders and more! Parts of this camp will take place on the Steamship *William G. Mather*. \$205 (\$185 for members)

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.....  
“Camp staff was exceptional and my children truly enjoyed the experience.”

2009 Camper Parent

# 4-5

### Great Lakes, Great Science

**Dates:** July 5 – 9  
**Time:** 8:30 am – 3:30 pm\*

Learn about Lake Erie's past and present, its ecology and its importance to Cleveland. Collect and examine water samples in our lab and dissect a fish. Enjoy a front-row seat at the Tall Ships festival and sail aboard a vessel on Lake Erie. \$250 (\$230 for members)

### LEGO NXT: Alternative Energy

**Dates:** July 12 – 16  
**Time:** 8:30 am – 3:30 pm\*

Race against other teams as you build and program a LEGO robot that installs solar panels, places wind turbines, builds hydro-dams and more! Learn where your power comes from and how the Science Center uses alternative energy. \$215 (\$195 for members)



Pre-ordered box lunches are available for \$5.50 per day.

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**Dates:** July 26 – 30  
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Start the week learning to build robotic arms and roving bots. Learn how to use motors and light, sound and touch sensors. Work as a team to design, build and program your own robot invention! \$215 (\$195 for members)

### Math Madness

**Dates:** July 5 – 9  
**Time:** 8:30 am – 3:30 pm\*

There's an infinite amount of things that you can do with math! Enjoy math through music and art, learn math magic tricks, use math to design a structure and explore math in everyday life. Take a field trip to the Cleveland Museum of Art. \$230 (\$210 for members)

# 4-5

**Science Explorer**

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**Wizard Science**

**Dates:** July 26 - 30  
**Time:** 8:30 am - 3:30 pm\*

Create and test potions, perform levitating experiments, explore herbology and study mythical beasts. Discover the science behind magic and enter the world of wizards! \$205 (\$185 for members)



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**Dates:** July 12 - 16  
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Experiment with friction, inertia and momentum. Use design and engineering skills to create miniature models of your favorite rides. Enjoy a day gathering data and riding rides at Cedar Point Amusement Park.  
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**Dates:** July 26 - 30  
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From molecular basics to periodic extremes, this will be a week to remember! Learn about chemical formulas, test different reactions and discover the explosive world of chemistry. You'll turn everyday household items into something spectacular!  
\$225 (\$205 for members)

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4-5

“Science doesn't have to be boring. The Great Lakes Science Center makes learning fun!”

2009 Camper



6-8

**NEW**

### LEGO NXT: Alternative Energy

**Dates:** July 19 – 23  
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Race against other teams as you build and program a LEGO robot that installs solar panels, places wind turbines, builds hydro-dams and more! Learn where your power comes from and how the Science Center uses alternative energy. \$215 (\$195 for members)

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**Dates:** August 2 – 6  
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Start the week learning to build robotic arms and roving bots. Learn how to use motors and light, sound and touch sensors. Work as a team to design, build and program your own robot invention! \$215 (\$195 for members)

### Materials Science

**Dates:** June 28 – July 2  
**Time:** 8:30 am – 3:30 pm\*

Use the fields of physics, chemistry and engineering to create polymers, explore thermodynamics and perform impact tests. Explore GLSC’s traveling exhibition, *Strange Matter*. Enjoy a field trip to the Materials Park in Geauga County and tour local industries. \$250 (\$230 for members)



*Pre-ordered box lunches are available for \$5.50 per day.*

*\*Before-and after-care options available from 7:30 – 8:30 am and 3:30 – 5:30 pm. Before-care: \$25/week. After-care: \$50/week*

# 6-8

Great Lakes Science Center is now offering the **High School Summer Science Institute!** High school students will get to sharpen science learning skills and work alongside area scientists! All camps are taught by certified teachers or professionals in the science field.

### Aerospace

**Dates:** June 28 – July 2  
**Time:** 8:30 am – 3:30 pm

Students will learn about the basic principles of flight and aerodynamics. Design, build and test a model aircraft in our wind tunnel exhibit! Students will enjoy a behind-the-scenes tour of NASA Glenn Research Center and explore microgravity through in-house experiments. \$300 (\$280 for members)

### BioMedTech

**Dates:** August 2 – 6  
**Time:** 8:30 am – 3:30 pm

Explore various careers in biomedical technology and engineering. Design and conduct experiments using biotechnology including recombinant DNA with microbes and gel electrophoresis. Students will enjoy a field trip to Cleveland-based biotechnology and engineering laboratories. \$300 (\$280 for members)

### Great Lakes Adventure

**Dates:** August 9 – 13  
**Time:** 8:30 am – 3:30 pm

Students will focus on the biology, chemistry, ecology and history of the Great Lakes, with a specific focus on Lake Erie. The week concludes with an overnight trip to Ohio State University’s Stone Laboratory on the Lake Erie Islands. At the laboratory, students will participate in a 2-hour session aboard a research vessel measuring current environmental conditions, collecting plankton samples and dredging to survey benthic macro-invertebrates. Students will also participate in a fish laboratory and invertebrate study. \$400 (\$380 for members)

### VEX Robotics

**Dates:** June 21 – 25  
**Time:** 8:30 am – 3:30 pm

Learn the basics of robotics and programming using the VEX Robotics Design System. Working in groups, students will design and build a robot using electric motors, gears, chains, sprockets and sensors. The robot will compete in a variety of challenges using a remote control and programmed microcontroller. \$300 (\$280 for members)



# 9-12



Great Lakes Science Center is pleased to once again offer camps at Laurel School's Butler Campus (Russell Township) and Lyman Campus (Shaker Heights)! **All camps are taught by certified teachers** or professionals in the science field.

**Awesome Astronauts**

**Location: Butler Campus**  
**Dates: July 5 – 9**

Learn about the planets, sun and moon. Build and launch a rocket and train to become an astronaut! Plus explore the STARLAB Portable Planetarium! \$230 (\$210 for members)

**Chemistry: Messy Mixtures**

**Location: Lyman Campus**  
**Dates: June 14 – 18**

Will it fizz, bubble or explode? Is it icky or sticky? Observe physical and chemical reactions as you mix and pour messy mixtures. Make your own slime, paint and lava lamps! \$230 (\$210 for members)

**Gross Out!**

**Location: Lyman Campus**  
**Dates: June 28 – July 1**

Belches, boogers and blisters. Worms and insects. Discover the biology and chemistry behind these and other disgusting stuff! \$184 (\$164 for members)

**Nature Capers**

**Location: Butler Campus**  
**Dates: July 12 – 16**

Explore the world around you as you learn how to identify trees, birds, animals and insects. Dissect plants, hike the outdoors and make art inspired by nature! \$230 (\$210 for members)

**Superhero Science**

**Location: Lyman Campus**  
**Dates: June 21 – 25**

Discover the world of superheroes as you create your own super-identity. Learn how bats see in the dark, make your own incredible elastic slime and perform freezing experiments. (Superhero costumes optional.) \$230 (\$210 for members)



**LEGO NXT: Zoo**

**Location: Lyman Campus**  
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Build and program animal-like robots that walk, crawl, hop and roll. Observe your animals and their unique adaptations. Share your creations at the LEGO Zoo! \$230 (\$210 for members)

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**LEGO NXT: Ancient Adventure**

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Archeologists have just discovered the tomb of an ancient Mayan king designed to keep out unwanted visitors! Safely navigate the ancient terrain by programming and building robots. \$230 (\$210 for members)

**Laurel School Camps run Mon-Fri from 9:00 am – 4:00 pm**

- All sessions include a field trip to Great Lakes Science Center and admission to an OMNIMAX film.
- Children entering grades K-8 may attend.
- After-care is offered at the Laurel School, Lyman Campus from 4:00– 5:30 pm for an additional \$40 per week.
- Roundtrip shuttle service from Lyman Campus to Butler Campus is available daily for \$30 per week.
- Campers must bring a brown-bag lunch and snack each day of camp.
- Camp curriculum allows students to be inside and outside during the day. Please come dressed for the weather.

K-1

2-3

### Birds, Bugs and Botany

**Location:** Butler Campus  
**Dates:** July 5 – 9

Explore flora and fauna, spend time bird watching, search for bugs and identify plants and trees. Look under rocks, in water and in the sky as you explore the world around you! \$230 (\$210 for members)

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### Materials Science

**Location:** Lyman Campus  
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Use the fields of physics, chemistry and engineering to create polymers, explore thermodynamics and perform impact tests. Explore the Science Center's traveling exhibition, *Strange Matter*. \$184 (\$164 for members)



# 6-8

## Camp Y-Noah, Akron

**Ages: 7 – 11 years old**

**Dates: July 12 – 16, 9 am – 4 pm**

Spend each morning with GLSC staff learning about the engineering process and solving real-world problems. Create superstructures, towers, bridges and more! After lunch, spend your afternoons enjoying traditional day camp activities. Campers in this session will enjoy a field trip to Great Lakes Science Center and an OMNIMAX film. \$265 (\$235 for Akron area YMCA members and GLSC members)



**Registration for this camp is available only through Camp Y-Noah at [www.gotcamp.org](http://www.gotcamp.org)**

## How to Register

### 1. Online – GreatScience.com

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Full payment is due at time of registration.*

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*Mon-Fri; 9 am - 5:30 pm*

### Registration fee

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Great Lakes Science Center reserves the right to cancel any camp two weeks in advance in case of insufficient registration and will provide a full refund.



## 1. Who will be supervising my child?

All camps are taught by certified teachers and science professionals. College-aged staff working towards a degree in education, science, technology or a related field assist the camp instructors. Classroom aides, mature high school students, also help with simple projects in the classroom.

## 2. Is lunch included?

Boxed lunches can be purchased at the Science Center campus for \$5.50 per day but must be ordered ahead of time. Campers can also pack their own lunch and snack. Lunch is not included at either of the Laurel School campuses – campers must bring a brown-bag lunch and snack each day of camp.

## 3. Is extended care available?

Extended care is available at the Great Lakes Science Center campus. Before-care is offered from 7:30 – 8:30 am for an additional \$25 per week. After-care is offered from 3:30 – 5:30 pm for an additional \$50 per week. After-care is offered at the Laurel School, Lyman Campus from 4:00 – 5:30 pm for an additional \$40 per week.

## 4. Are there discounts available?

Discounts are available for Great Lakes Science Center members. Not a member? Visit the website for information on how to join, or call (216) 696-4576.

## 5. Who do I contact in case of emergency?

In case of an emergency or urgent message that needs to be shared with your camper, please contact the Camps and Classes phone line at (216) 696-5113. If your phone call is not answered, please leave a message and we will return your call as soon as possible.

**Have more questions?  
See our complete FAQs  
on the summer camp page  
at [GreatScience.com](http://GreatScience.com)**

