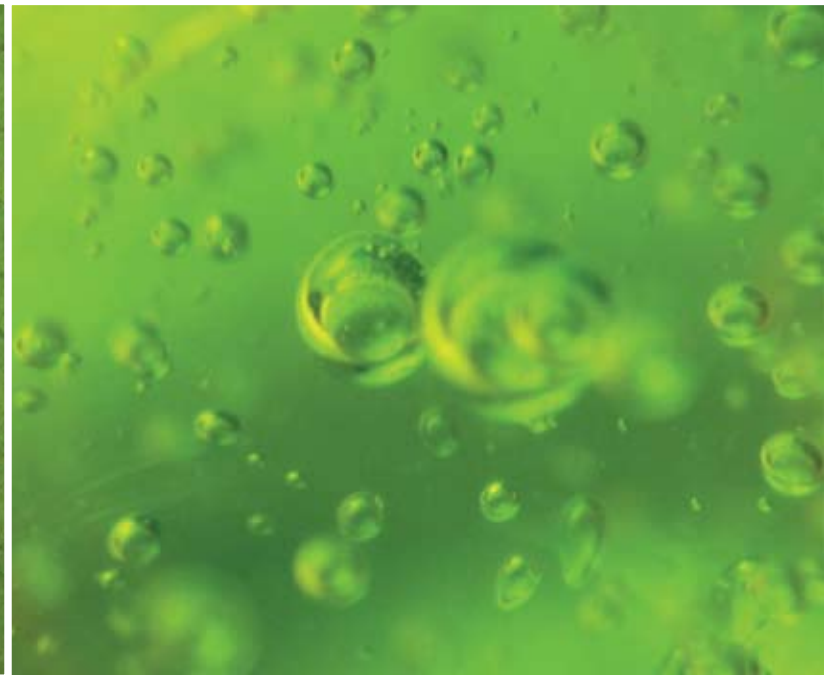


Summer Fun

Science Camp for Pre-K to Rising Ninth-Graders



June 14 – August 20, 2010 • Ten Weeks of Slimy, Goopy, Green, Mind-Blowing, Fiery & Engaging Science Classes!

Pre-K - 6th Grade

Summer Fun Science Classes for youth in grades Pre-K – 6th are held Monday - Friday, 10 a.m. - noon

Choose from 10 weeks of exciting and fun-filled science classes designed for specific age groups. Each week features a different class theme, with all activities centering around that topic. Registration is first-come, first-served by prepayment.

Cost per week: \$40 member, \$80 nonmember

Summer Fun Extended Day Options are available for busy schedules

Class participants entering grades first through sixth can spend a full day at the Science Center camp.

Early Arrival Option – 7:30 to 10 a.m.

Available for 4-year-olds to rising sixth-graders. Supervised play outdoors (weather permitting) and games galore at CSC from 7:30 a.m. until Summer Fun science classes begin. **Cost per week: \$15 member, \$30 nonmember.**

Afternoon Adventures

Supervised activities include indoor and outdoor games, scavenger hunts and special-themed parties.

Swimming and movie outings are planned each week. Other activities include mini-golf, tennis, bowling and park visits.

Grades 1st - 6th • noon to 5:30 p.m. • Cost per week: \$50 member, \$85 nonmember

Science Class Descriptions

PRE-K (4+) & RISING KINDERGARTEN

Week 1 • June 14 – 18

If I Had a Pet — If you had a pet, what would it be... a spider, a snake or a monkey? Discover what animals need daily to survive and learn which animals need to be left to live in the wild. Find out what it's like to be a zoo keeper and make puppets of your favorite animals.

Week 2 • June 21 – 25

Messy Science — Create fizzy and foamy concoctions through chemistry experiments that feel slimy, explode with color and tickle your nose. Learn how to make mixtures and your own play-dough.

Week 3 • June 28 – July 2

A Buggy Lunch — Have you ever had bugs for lunch? Of course not! Find out what creatures really do munch on bugs for lunch. Investigate and unfold the mysteries of their life cycles and make a diorama of their habitats.

Week 4 • July 5 – 9

Rainforest Romp — Take a trip through the fascinating rainforests of the world. Learn about the incredible number of animals living there and why their survival is important to us all. Create a mask of your favorite animal.

Week 5 • July 12 – 16

Diggin' Dinosaurs — Unearth these "terrible lizards" as you find out how fossils can tell a story about the past. Compare your footprint to one left by a huge dinosaur. Touch and examine real fossils, plus make a "fossil" to take home.

Week 6 • July 19 – 23

What's That Sound? — Sing, bounce and feel the beat in this exciting class as you explore your sense of hearing. Make an instrument and join the "Good Vibrations" band.

Week 7 • July 26 – 30

Color My World — Who or what is ROY G BIV? How is a rainbow made? Find the answers to these questions and more as you experiment with prisms, create secondary colors and make a swirling kaleidoscope.

Week 8 • August 2 – 6

Tree House Living — What would it be like to be a tree? Discover what creatures might make their homes in your trunk, on your branches or under your leaves. Take a nature walk and identify these "high-rise" homes.

Week 9 • August 9 – 13

Kit and Kaboodle — Experience and describe the world around you in a new way through the use of science tools and measurement. Explore simple machines used in building and construction. Can you design the tallest skyscraper or the longest bridge?

Week 10 • August 16 – 20

Bubble-ology — Learn the science behind making bubbles in this fun-filled class. Can you blow a square bubble? Try your hand at creating gigantic bubbles with our amazing bubble wand. Create your own bubble-art masterpiece.

RISING 1ST & 2ND GRADES

Week 1 • June 14 – 18

Ice Cream Chemistry — Bring science into the kitchen as you discover why and how ice cream forms. Make ice cream with liquid nitrogen and other great tasting snacks, too.

Week 2 • June 21 – 25

Into the Briny Deep — Explore the Earth's deep oceans and discover what strange and unusual creatures call it home. See bioluminescence in action, an octopus with "ears" and experience some of the conditions in these amazing environments. Put together a shimmering ocean habitat.

Week 3 • June 28 – July 2

Cretaceous Creatures — Explore the world during the time of the dinosaurs while investigating layers of the Earth and fossils. Create an edible "dirt dig" as you search for evidence of these prehistoric animals. Compare how they were different from the ancient reptiles.

Week 4 • July 5 – 9

We Like To Move It, Move It — Get into the science of motion in this lively and animated class. Roll, bounce and hop your way through experiments with Slinkies, toy cars, balloons and more. Assemble a wacky walker to take home.

Week 5 • July 12 – 16

What's in a Tree? — Have you ever wondered what animals live in trees? Learn why they are so important to these animals and people as well. Examine tree cookies, leaves and seeds. Make your own "growing" sapling.

Week 6 • July 19 – 23

Reptile Round-up — Get ready for a week of scaly encounters with CSC's reptile representatives. Meet our new baby alligator & Pedro the Tortoise, as well as our many snakes and lizards. Fashion an alligator visor to wear.

Week 7 • July 26 – 30

Bugs, Insects & Spiders, Oh My! — Do an insect check to discover why some "bugs" are insects, while some are not. Observe living tarantulas and dissect a grasshopper. Put together a bug catcher to house a cricket.

Week 8 • August 2 – 6

How Does Your Garden Grow? — Discover why flowers are beautiful and necessary for us to enjoy some of our favorite foods. Look at a bee up close and learn about pollination. Plant a sunflower and watch it grow.

Week 9 • August 9 – 13

Fascinating Rhythms — Explore sound energy as you make your own musical instruments from everyday household items. Find out what waves have to do with sound and how our ears enable us to hear.

Week 10 • August 16 – 20

Water Works — Explore the wonders of our favorite fluid and learn why it is so special. Experiment with boats and heavy liquids. Discover what makes objects sink or float. Layer a density tube to shake and watch separate.

RISING 3RD & 4TH GRADES

Week 1 • June 14 – 18

Monkey See, Monkey Do — Investigate animal behavior in the classroom and by making observations in your own backyard. Experiment with Madagascar hissing roaches as you place them in differing environments. Learn to interpret the behavior of chimpanzees, wolves, whales and other creatures.

Week 2 • June 21 – 25

CSI at CSC — Become a super sleuth as you crack the case at the crime scene. Search for blood splatters in the dark. Uncover the secrets contained in fingerprints. Learn to identify unknown substances through the power of scientific tests and analysis.

Week 3 • June 28 – July 2

Mechanized and Mobile — Challenge yourself while working with gears, making a mini motor, and assembling a motorized action machine. Experiment with robot operation and design. Add lights, sound and music to animate your creation.

Week 4 • July 5 – 9

Smelly Science — Discover the science behind odors. Explain why shoes smell, rotten eggs reek and the reasons behind odoriferous mysteries of the human body.

Week 5 • July 12 – 16

Space Trekking — Explore our galaxy including the planets and star in our solar system. Make your own planisphere to locate distant stars and constellations. View the night sky in the Millholland planetarium.

Week 6 • July 19 – 23

Experiments in a Bottle — Discover the many cool science activities you can do using simple plastic bottles. Make a TerrAqua column, a density tube and creatively recycle bottles.

Week 7 • July 26 – 30

Animal Antics — Investigate amazing animal senses and adaptations like noses for digging and ears for seeing. Discover which animal has the best eyesight, most sensitive nose and sense of touch. Go in-depth when you dissect a cow eye.

Week 8 • August 2 – 6

Land Down Under — Dig in the dirt to examine soil properties such as temperature, structure, particle size and pH. Predict the soil quality, then compare your hypothesis with test results. Discover organisms that live in a compost pile and make a soil profile tube to view.

Week 9 • August 9 – 13

Soda Pop Science — Why are sodas fizzy and how does popcorn pop? Experiment with different ingredients and learn how the treats you make can be more healthful and tasty.

Week 10 • August 16 – 20

Symbiotic Systems — Examine ecology and the interaction and dependency of plants and animals on one another in nature. Take a field trip to Glenn Hilton Park to see these ecosystems in action.

RISING 5TH & 6TH GRADES

Week 1 • June 14 – 18

Vet Vocations – Have you ever thought about becoming a veterinarian? Find out what their days are like as you take a field trip to watch a surgery. Dissect a fetal pig, design a vet's office and much more. **\$5 materials fee (due at registration)**

Week 2 • June 21 – 25

Biological Blueprints – Unlock the secrets of DNA. Extract these macromolecules from saliva and strawberries. Formulate hypotheses about physical characteristics and how they are passed from one generation to the next.

Week 3 • June 28 – July 2

Blast Off! – Customize your own space shuttle for your journey through the solar system and view Astronaut in the Millholland planetarium. Build and launch a model rocket for your final experiment and countdown. **\$6 materials fee (due at registration)**

Week 4 • July 5 – 9

Fireworks 101 – Trace the history of pyrotechnics to their ancient origins in China. Learn the basics of fire (safely, of course). Conduct flame tests to identify unknown elements; a true trial by fire.

Week 5 • July 12 – 16

Where in the World? – Learn how to use global positioning devices while orienteering and mapmaking. Go for a hike at Glenn Hilton Park and test your knowledge of geocaching; you may just find the hidden treasure.

Week 6 • July 19 – 23

Oceanology – Examine seashore animals and their habitats. Study waves and currents and learn about pollution and the conservation of our sandy shores.

Week 7 • July 26 – 30

Friendly Plastics – Imagine what our lives would be like without plastics. Discover how we use and experiment with polymers while making slime and funny putty from everyday materials. Design and mold your very own plastic creation.

Week 8 • August 2 – 6

Robotics 101 – Find out what in the world "Crickets" have to do with robots. Experiment with sandwich robots; build an engine, a radio, catapults and straw launchers. **\$8 materials fee (due at registration)**

Week 9 • August 9 – 13

Get Energized – Remove the mystery of alternative energy technologies and learn the basic ideas behind how they work. Learn new ways of creating and using energy that do not promote greenhouse gas production.

Week 10 • August 16 – 20

Food Chemistry – Perform a series of physical and chemical tests to discover which nutrients are in common foods. Learn to make healthful food choices, analyze food labels, and eat some of your experiments.

Rising 7th – 9th

Classes are Monday - Friday, 10 a.m. until 2 p.m.

(Please note: Micro-Worlds will be 10 a.m. until noon)

Offerings include four, weekly themed classes exploring microbiology, oceanography, astronomy and green technologies. Choose one, or all four weeks. Campers should bring a bag lunch and drink.

Cost per week: \$50 member, \$100 nonmember

Extended Day Options

Early Arrival Option – 7:30 to 10 a.m.

Supervised play outdoors (weather permitting) and games galore at CSC from 7:30 a.m. until the Science Classes begin.

Cost per week: \$15 member, \$30 nonmember

Afternoon Adventures – 2 to 5:30 p.m.

Supervised activities include indoor and outdoor games, scavenger hunts and special-themed parties. Swimming and movie outings are planned each week. Other activities include mini-golf, tennis, bowling and park visits.

Cost per week: \$40 member, \$65 nonmember

Rising 7th – 9th

Week 4 • July 5 – 9

Micro-worlds – What is a "water bear?" How small are bacteria? Use microscopes to discover fascinating worlds invisible to the naked eye. Explore the latest developments in nanotechnology. *Class 10 a.m. – 12 p.m., pricing structure same as Pre-K – 6th.*

Week 6 • July 19 – 23

Oceanography – Dive into the study of all things marine including the oceans' waters, ecosystems, waves, currents, tides, and the topography of the seafloor. Go behind the scenes to discover how to care for aquarium animals.

Week 7 • July 26 – 30

Astronomy – Go light years beyond our solar system as you experience daily viewings of shows like Black Holes and star talks in Millholland Planetarium. Visit the Lucille Miller and Lenoir-Rhyne University Observatories, then construct your own refracting telescope.

Week 8 • August 2 – 6

Living the Green Life – Discover how renewable energy and cleaner technologies are becoming a part of everyday life. Go beyond hybrid cars and solar panels as you become familiar with wind turbines and bio-diesel fuels. Explore how alternative practices are being implemented locally at Duke Energy's Energy Explorium and Marshall Steam Station, and the Catawba County Eco-complex.

CSC Summer Fun 2010 Registration Form

Please use a separate form for EACH child. Photocopies are acceptable or download additional forms at www.catawbasience.org.

Return the completed form **with payment** to:

Catawba Science Center, P.O. Box 2431, Hickory, NC 28603 or Fax to: (828) 322-1585.

Child's Name _____ DOB _____ Rising Grade _____
 Parent / Guardian _____ Address _____ City _____ State _____ Zip _____
 Phone: Home _____ Work _____ Cell _____ E-mail _____
 Other individuals allowed to pick up my child: _____
 CSC Member?* Yes No If Corporate Member, Company Name _____ Employee _____

*CSC membership must be valid throughout participation in Summer Fun science camp. Complete form in brochure to join or renew.

Class Name	Dates	Class Fee	Early Arrival Fee	Afternoon Fee	Materials Fee	Weekly Total

Subtotal \$ _____

Please complete FRONT and BACK of Registration Form.
(Include membership form if joining CSC)

Membership Fee (if applicable) \$ _____

GRAND TOTAL \$ _____

_____ Check enclosed (payable to CSC) Charge my VISA Mastercard Discover American Express
 Name on card _____ Card # _____
 Expiration Date _____ Signature _____

Refund Policy If cancellation is made at least two weeks before class begins, an administrative fee of \$10 per class will be deducted from your refund. Refunds will not be granted for cancellations within two weeks of the class beginning date. CSC reserves the right to cancel any programs in the event that minimum class enrollments are not reached. If this occurs, your entire payment will be refunded and you will be notified on the Thursday or Friday of the week prior to class.

CSC MEMBER RATES

Grades	Class	Early Arrival*	Afternoon Adven.*	All Day
Pre-K & Rising K	\$40	\$15	Not available	Not available
Rising 1st — 6th	\$40	\$15	\$50	\$105/ week
Rising 7th — 9th	\$50	\$15	\$40	\$105/ week

NONMEMBER RATES

Grades	Class	Early Arrival*	Afternoon Adven.*	All Day
Pre-K & Rising K	\$80	\$30	Not available	Not available
Rising 1st — 6th	\$80	\$30	\$85	\$195/ week
Rising 7th — 9th	\$100	\$30	\$65	\$195/ week

*** Early Arrival & Afternoon Adventures available only to class participants.**
Financial assistance & payment options available.

CSC Summer Fun 2010 • Required Information

CHILD'S NAME: _____

PRIMARY EMERGENCY CONTACT AND PHONE:

(Name) (Home) (Work) (Cell)

SECONDARY EMERGENCY CONTACT AND PHONE:

(Name) (Home) (Work) (Cell)

Optional: I give permission for my child's name and photographs (still or moving) to be used for promotional purposes of Catawba Science Center.
(please initial)

MEDICAL INFORMATION (completion required)

This form must be on file at CSC in order for your child to participate in Summer Fun

Health / Accident Insurance: Employer _____ Insurance Co. _____

Policy Number _____

Name of Insured _____ Doctor _____ Phone _____

Currently on any medications? If so, please list and describe schedule for emergency administration. Include any asthma or allergy medications. If there are medications that must be administered by CSC staff, written directions must be sent. _____

_____ Allergies _____

I, _____, do hereby authorize Catawba Science Center staff to act on my behalf in seeking any medical treatment or medicine for my son/daughter, _____, during the *CSC Summer Fun* program.

PARENT/GUARDIAN SIGNATURE _____ Date _____

Afternoon Adventures and Field Trip Release Form

This form must be on file at CSC in order for your child to participate in the Afternoon Adventures program or class field trips.

I give permission for my son/daughter, _____, to travel locally with Catawba Science Center to Afternoon Adventure destinations such as: Hickory Foundation YMCA, Patrick Beaver Library, Lenoir-Rhyne University, McComb Park, Glenn Hilton Park, Carolina Theater, Pin Station, Hickory Fire Station, and to class field trip destinations of Glenn Hilton Park, a wastewater treatment plant, Marshall Steam Station, Catawba Co. Eco-Complex, Lucille Miller Observatory and Energy Explorium.

My child requires a booster seat. NC State Law requires any child under age 8 who weighs less than 80 pounds to sit in a booster seat.

PARENT/GUARDIAN SIGNATURE _____ Date _____

Note to parents: Students will travel in CSC vans driven by adult staff. All groups will return to CSC no later than 4:30 p.m. 1st - 6th-grade class field trip participants will return no later than noon; 7th-9th-graders, no later than 2 p.m.

Summer Fun Policies and Procedures

Registration Information

Please complete the enclosed Registration Form. (One form per child. You may photocopy or download from www.catawbascience.org.) *Children are enrolled on a first-come, first-served basis according to when payment and registration form are received.* Payment options available. Call CSC for information.

Check-In/Sign-Out Policy

All children must be checked in and signed out by a parent or authorized adult. All check-in takes place in the lobby of the West Education Building. For the security of all children, you must sign out those attending only Science Classes in their individual classrooms. Please call ahead if you are not familiar with classroom locations. Parents with special needs may ask for exceptions to this procedure. Please call CSC's Public Programs Coordinator to make advance arrangements. Special needs may include parents who have very young children in strollers or those parents who cannot negotiate flights of stairs.

Prohibited Items

For the safety of children and their belongings, we require that Summer Fun participants do not bring any electronic devices or wear shoes with wheels. If cell phones are parent-approved, they must be kept out of sight at all times.

Parking Policy

When checking in or picking up your child, you must park in a designated parking space. Please do not stop your vehicle in the driveway. Parking is available in the North and South Lobby entrance areas, as well as the lot behind the West Education Building.

Extended Day

Campers attending Afternoon Adventures must bring a bag lunch and drink. Additional snacks are recommended. Children arriving in the early morning are also encouraged to bring a small snack. Other needs will be included with the confirmation letter sent to parents. Children must be signed out by a parent or authorized adult from the Afternoon Adventures activity areas in the Education Building. **After 5:30 p.m., a \$1 per minute late fee will be charged.**

Financial Assistance

CSC has funds available to provide partial funding for youth who qualify based on demonstrated need. Call CSC for an application.

Refund Policy / Cancellations

If registrant cancels at least two weeks before class begins, we will issue a refund minus an administrative fee of \$10 per class. *We cannot grant refunds for cancellations within two weeks of the class beginning date.* CSC reserves the right to cancel any class that does not reach minimum enrollment. If this occurs, we will notify you on the Thursday or Friday of the week prior to the class and issue you a full refund.

Become a Member of Catawba Science Center

As a CSC Member you receive a HUGE Summer Fun Discount

Check out additional membership benefits & levels online at www.CatawbaScience.org.

2010-11 Catawba Science Center • Membership Form

Membership valid one year from date of joining/ renewing

Please check: New Membership Renewal Membership

Choose member level: **Family, \$70** • Includes parents/guardians with their children 18 & under
 Grandparent, \$70 • Includes grandparents with their grandchildren 18 & under

Parent Names _____ Address _____ City _____

Child/Children's Names & Birthdays _____ County _____ State _____ Zip _____

Home # _____ Work # _____

E-mail address _____

Get Ready for 10 Weeks of Slimy, Goopy, Green,
Mind-Blowing, Flery & Engaging Science Fun!



243 Third Ave. NE
PO Box 2431
Hickory, NC 28603

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