

Join Us For **SUMMER FUN** 2016

catawba
science
center



JUNE 13 - AUGUST 26

11 WEEKS of Hands-On
Science Camps for Youth Pre-K
Through Rising 9th Grade





SUMMER FUN SCIFUN CLASSES

Pre-K* – 9th

Monday - Friday, 10:00 am - 12:00 pm

Choose from 11 weeks of exciting and fun-filled science classes designed for specific age groups. Each week features a different class theme, with all activities centered around that topic. Registration is first-come, first-served by prepayment.

Each SciFun camper will receive a free t-shirt.

Special Offer: Pay for 6 SciFun classes and get a 7th class free! *Based on availability.*



SUMMER FUN EXTENDED DAY OPTIONS

SUNRISE SCIENCE

Pre-K* - 9th grade

Monday - Friday, 7:30am - 10:00am

Available for 4-year-olds to rising ninth-graders. Supervised independent learning experiences, science related games, and exhibit visits before CSC opens to the public! Beginning at 7:30 until SciFun classes begin at 10.

AFTERNOON ADVENTURES

1st - 9th grade

Monday - Friday, Noon - 5:30pm

Supervised activities include indoor and outdoor games, scavenger hunts, and themed parties. Enrolled participants will go on field trips to great local attractions: swimming, movie outings to Carolina Theater, City of Hickory parks, Patrick Beaver Memorial Library (1st and 2nd graders) and bowling (5th - 9th graders). Activities will vary each week and will keep campers entertained and wanting to come back for more Summer Fun.

An additional charge is required when registering for Sunrise Science and Afternoon Adventures without SciFun classes.

*Pre-K participants must be at least 4 years of age.





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 forms 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 Wing Building. For the security of all children, you must sign out those attending only SciFun 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 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. 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 and along Third Ave NE in front of the buildings.

LUNCHES AND SNACKS

Campers attending the Summer Fun Afternoon Adventures must bring a bag lunch and drink; microwave and refrigerator are not available for campers' use. Additional snacks are highly recommended. Children arriving for the Sunrise Science are also encouraged to bring a small snack.

EXTENDED DAY

For campers attending Afternoon Adventures, additional needs will be included with the confirmation letter emailed to parents. Children must be signed out by a parent or authorized adult from the Afternoon Adventures activity areas in the West Wing Building. After 5:30 pm, a \$1 per minute per child late fee will be charged.

FINANCIAL ASSISTANCE

CSC may be able to provide financial assistance for membership and program fees to families who qualify based on demonstrated need. These funds are available on a first-come, first-served basis. Call CSC for an application.

MEMBERSHIPS

In order to receive member discounts, your CSC membership must be valid throughout the time your child will participate in Summer Fun Science Camp. If your membership expires and you do not renew, you will be charged non-member rates for the remaining weeks.

REFUND/CANCELLATION/LATE REGISTRATION FEE POLICIES

If registrant cancels at least two weeks before class begins, CSC 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 of the week prior to the class and issue you a full refund. A late fee of \$5 per child will be charged for registrations made less than one week prior to camp.



Pre-K - Kindergarten

Week 1 • June 13-17

The Four Seasons

Winter, Summer, Spring, and Fall, which one is your favorite of them all? Understand the reasons for the seasons here on Earth. Make your own 4 seasons tree.

Week 2 • June 20-24

Messy Science

Create fizzy and foamy concoctions through chemistry experiments that feel slimy, explode with color, and tickle your nose. Make your own mixtures—including modeling clay!

Week 3 • June 27-July 1

What's that Sound?

Sing, bounce, and feel the beat in this exciting class as you explore your sense of hearing and the science of sound. Make an instrument and join the "Good Vibrations" band.

Week 4 • July 5-8 (4 day week)

Who's My Mommy?

Did you know that some newborn animals are left on their own to fend for themselves? Learn about different animals and how they care for their young. Make a momma opossum with babies to take home.

Week 5 • July 11-15

Super-Duper Soil

Explore where wiggly worms and black beetles find food, water and shelter. Dig into this special habitat under your feet. Layer up an edible dirt cup with worms!

Week 6 • July 18-22

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.

Week 7 • July 25-29

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 while visiting the Flutter-By Butterfly Habitat.

Week 8 • August 1-5

Operation H₂O

Water is necessary for life! Come experience a week filled with fun, wet activities where you will explore everything from sinking and floating to boiling and evaporation, with all else in between! Build your own water bottle boat!

Week 9 • August 8-12

Rock Solid

Get dirty with CSC as you learn the differences between rocks and minerals. Go on a rock hunt. Create your own sand art to take home.

Week 10 • August 15-19

Kit and Kaboodle

Experience and describe the world around you in a new way through the use of science tools and measurements. Explore simple machines used in building and construction. Can you design the tallest skyscraper or the longest bridge? Create your own structure using unusual building materials including gumdrops and toothpicks.

Week 11 • August 22-26

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 rainforest creature.





Rising 1st - 2nd Grades

Week 1 • June 13-17

Art in Nature

Express yourself through art while learning about color and light. Create art from items found in nature including your very own creation to take home.

Week 2 • June 20-24

Reptile Round Up

Get ready for a week of scaly encounters with CSC's reptile representatives. Meet Pedro the Tortoise, as well as our snakes and lizards. Make your very own reptilian craft to take home.

Week 3 • June 27-July 1

Super Structures

Castles, towers, pyramids, pentagons, and forts are all included in this exciting adventure. Learn about the many different architectural styles of the world while building your own incredible structures.

Week 4 • July 5-8 (4 day week)

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 5 • July 11-15

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 Slinkys, toy cars, balloons, and more. Create your own spinning top to take home.

Week 6 • July 18-22

Birds of a Different Feather

Do you know which bird is the largest in the world? Can all birds fly? Learn the answer to these questions and many more. Make your own bird feeder to hang outside your home to attract birds to view.

Week 7 • July 25-29

Bubbling Science

Ever tried making a square bubble? Try your hand at concocting the perfect bubble recipe. Become a bubble expert! Create a bubble you can stand in. Make your very own bubble fish print to take home.

Week 8 • August 1-5

Slime Time

From goo to gak, become a slippery scientist as we experiment in the lab. Make green globs and Jell-O sculptures while you develop and apply science skills.



Week 9 • August 8-12

Creep into the DEEPEND™

In this WhaleTimes Inc. program, campers become Virtual Members of a deep-sea mission. They will have a chance to interact with a DEEPEND Science Team member during a special Skype interview while learning about creatures from the deep.

Week 10 • August 15-19

Body Language

Do you know that your brain is the control center for your body? How can your body be made mostly of water? Join this class to explore the amazing world that lies beneath your skin. Create your own life-size wearable body apron.

Week 11 • August 22-26

Rocks in My Head

Become a rock hound as you learn how to classify rocks. Make your own sparkling craft to take home.



Rising 3rd - 4th Grades

Week 1 • June 13-17

Secrets of the Soil

Get ready to dig down and get dirty. Uncover secrets just like an archaeologist, paleontologist, and geologist. Take a close look at real fossils and gems found in the soil.

Week 2 • June 20-24

Invertebrate Shuffle

Investigate how so many animals from insects to mollusks survive with no backbone. Visit our Flutter-By Butterfly Habitat to get an up-close look at some of these insects. Meet Rosy the Tarantula and our hissing roaches too.

Week 3 • June 27-July 1

Light & Lenses

Experiment with the unusual properties of light using polarizing filters, prisms, and telescopes. Try your hand at bouncing lasers around the room with mirrors and enjoy a laser show in the Millholland Planetarium.

Week 4 • July 5-8 (4 day week)

Smelly Science

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

Week 5 • July 11-15

Option 1: Bird Hunters

What is so special about birds of prey? Owls, hawks, eagles, and falcons share many characteristics. Learn about what they eat, where they live, and how they compare with other birds.

Option 2: How Computers Think

Learn to program a computer, and how to think like a programmer. Use your coding skills to solve puzzles, play games, and make apps! **Additional Tech Class fee of \$125 (due at registration)**

Week 6 • July 18-22

Soda Pop Science

Why is soda fizzy? How does popcorn pop? Fizz, pop, and foam your way through food experiments while you answer these questions and many more.

Week 7 • July 25-29

On the Brink

Take a close look at animals that have become extinct, and those that scientists have brought back from the brink. Endangered means there's still time to save these threatened species – find out how you can help.

Week 8 • August 1-5

Creep into the DEEPEND™

Every animal and discovery in the deep is weirder and more wonderful than the next. Join in on this great experience from WhaleTimes Inc. to learn about the deep sea ecosystem. Get a chance to Skype with a DEEPEND Science Team member.

Week 9 • August 8-12

Rockin' Rocks!

In this geological exploration, study what causes earthquakes and tsunamis, cave erosion and fossils. Test and identify minerals as you research their properties.

Week 10 • August 15-19

CSI at CSC

Become a 'Super Sleuth' as you crack the case at a CSC 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 11 • August 22-26

Animal Antics

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

\$2 materials fee (due at registration)





Rising 5th - 6th Grades

Week 1 • June 13-17

Science Sampler

Spend a week immersed in all kinds of science! Discover the secrets trees hold, play with mini robots, go “fishing” for creek critters, conduct electricity through your own body, and much, much more! Field trip to Glenn Hilton Park.

\$5 transportation fee (due at registration)

Week 2 • June 20-24

Food Chemistry

Test your chemistry skills in the kitchen and find out why our bodies need food for energy. Learn how kitchen chemistry can change states of matter. Who knew chemistry was so yummy?

Week 3 • June 27-July 1

Option 1: Bug-o-rama

Enter the world of thoraxes, abdomens, and antennae. Discover the insects in your own backyard and investigate their part in Earth’s ecology.

Option 2: Engineering Tomorrow

Learn how to use a laser cutter, 3D printer, and breadboard to make prototypes of your ideas. Use a soldering station to make a tree that lights! **Additional Tech Class fee of \$125 (due at registration)**

Week 4 • July 5-8 (4 day week)

The Magic of Wizards

Have you ever wondered “how did they do that?” Learn to use optical illusions and chemical reactions and become a wizard at science to impress your friends and family!

Week 5 • July 11-15

Down and Dirty

Have fun in this hands-on discovery class about dirt and soil. Discover the many uses of soil and what it contains. Oh, the fun you will have with dirt!

Week 6 • July 18-22

Option 1: Biological Blueprints

Unlock the secrets of the “king of molecules,” known as DNA. Extract these macromolecules from onions and strawberries. Formulate hypotheses about physical characteristics and how they are passed from one generation to the next.

Option 2: Intro to Text Based Coding

Learn the basics of text based programming languages. Learn Python in an interactive format by playing a game! Use your new skills to program an Arduino! This is our intro level text based programming course, no prior programming experience required. **Additional Tech Class fee of \$125 (due at registration)**

Week 7 • July 25-29

Oceanology

Examine shore animals along with their habitats. Study waves and currents and learn about pollution. Learn how you can help conserve our sandy shores.

Week 8 • August 1-5

Micro Worlds

Delve into unseen worlds! Learn proper techniques of using a microscope, investigate single-celled organisms, and discover what can be hiding in ordinary pond water.

\$5 materials fee (due at registration)

Week 9 • August 8-12

Solve It!

Exercise your skills of observation and deduction as you sift through evidence for clues and decide who did it. Mysteries abound in this class that is not so “elementary”.

Week 10 • August 15-19

Beastly Behavior

What makes whales whistle, pandas turn somersaults, and crocodiles roar? Answer these questions and more and also learn about animals that are endangered.

Week 11 • August 22-26

Brain Games

Are you good at solving puzzles? Try your hand at many different brain teasers and get an up close look at a real brain! **\$3.50 specimen fee (due at registration)**





Rising 7th - 9th Grades

^ Field trips may extend beyond two-hour class period.

Week 2 • June 20-24

Engineering Skills 102

Explore CSC's tech tools - 3D printer, laser cutter, soldering irons and more - as an engineer would. Use a soldering station to make a tree that lights!

Additional Tech Class fee of \$125 (due at registration)

Week 3 • June 27-July 1

Aqua Marine

Are you interested in the marine world? If so this is the class for you. Spend some time in CSC's Aquaria getting to know the marine animals.

Week 5 • July 11-15

Chem Basics

This introductory laboratory class will include learning about the Periodic Table and how the elements differ. Compounds, general reactions, synthesis and decomposition of chemicals will be addressed along with lab safety. Visit Manufacturing Solutions Center to see how they apply chemistry in their everyday jobs. **\$5 transportation fee (due at registration)**

Week 7 • July 25-29

Disaster Master

Learn how to prepare yourself for all kinds of disaster ranging from earthquakes to a zombie apocalypse. Visit Duke Energy Explorium. **\$5 transportation fee (due at registration)**

Week 8 • August 1-5

Minecraft Science

Learn how to use Redstone in new ways. Import 3D drawings you make using drafting software into your world (3D print one as well). Use a map editor to change your environment, and use scripts to change the way the game works! A basic knowledge of Minecraft is needed. **Additional Tech Class fee of \$125 (due at registration)**

Week 9 • August 8-12

Science Olympiad

Are you up to the design challenges, fast-paced quizzes and science games? Explore bottle rockets, cell biology, forensics, fossils, and more while readying yourself for the next Science Olympiad tournament.





Constituent #:

For Office Use Only

CSC SUMMER FUN 2016 REGISTRATION FORM

Please use a separate form for EACH child. Photocopies are acceptable or download additional forms at www.CatawbaScience.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 _____ M F DOB _____ Rising Grade _____

Parent / Guardian _____

Address _____ City State Zip _____

Phone: Primary# _____ Work Cell Home E-mail _____

Phone: Secondary# _____ Work Cell Home Summer Fun Total \$ _____

CSC Member?* Yes No • Expiration Date _____ Membership Fee (if applicable) \$ _____

Child's Shirt Size: (Circle one) YXS YS YM YL S M L XL GRAND TOTAL \$ _____

Call for payment

Check enclosed

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 of the week prior to class.

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

SUMMER FUN PRICES

Week	AM Session				PM Session		(As cited in SciFun class description)	Fees	Total
	SunRise Science		SciFun		Afternoon Adventures				
	7:30 - 10 AM		10 AM - 12 PM		12 - 5:30 PM				
	MEMBER	NON-MEMBER	MEMBER	NON-MEMBER	MEMBER	NON-MEMBER			
1	\$20	\$25	\$80	\$105	\$75	\$100			
2	\$20	\$25	\$80	\$105	\$75	\$100			
3	\$20	\$25	\$80	\$105	\$75	\$100			
4	\$16	\$20	\$64	\$84	\$60	\$80			
5	\$20	\$25	\$80	\$105	\$75	\$100			
6	\$20	\$25	\$80	\$105	\$75	\$100			
7	\$20	\$25	\$80	\$105	\$75	\$100			
8	\$20	\$25	\$80	\$105	\$75	\$100			
9	\$20	\$25	\$80	\$105	\$75	\$100			
10	\$20	\$25	\$80	\$105	\$75	\$100			
11	\$20	\$25	\$80	\$105	\$75	\$100			
RATES WHEN NOT REGISTERED FOR SCIFUN									
Wk__	\$25	\$40			\$85	\$120			
Wk__	\$25	\$40			\$85	\$120			
Wk__	\$25	\$40			\$85	\$120			

TOTAL:



CSC SUMMER FUN 2016 • REQUIRED INFORMATION

CHILD'S NAME: _____ RISING GRADE: _____

EMERGENCY CONTACT AND PHONE **IF PARENTS CANNOT BE REACHED:**

(Name) *(Primary Phone Number)*

I hereby consent and authorize Catawba Science Center to use and reproduce any photographs of my child for promotional purposes or otherwise.

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 or medical conditions _____

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, Local Parks, Carolina Theater, AMF Bowling and to class field trip destinations such as: Manufacturing Solutions Center, Glenn Hilton Park, and Duke 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. Booster seats for 1st/2nd grade Afternoon Adventure participants will be provided by CSC.*

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 4:00 pm





BECOME A MEMBER OF CATAWBA SCIENCE CENTER

As a CSC Member you receive a HUGE Summer Fun Discount and free admission to CSC including exhibits, aquaria, and planetarium.

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

If joining, please cut out and return with registration form.

CATAWBA SCIENCE CENTER • MEMBERSHIP APPLICATION

Membership valid one year from date of joining/renewing

- Choose member level:
- Family, \$75** • Includes two designated adults and dependent children 18 & under *
 - Grandparent, \$75** • Includes two designated adults and their grandchildren 18 & under *
 - Patron, \$100-\$249** • CSC Family Level Benefits, plus one free guest per visit *
 - Corporate Members Employee Upgrade, \$20** • Attach your blue corporate member card and check the family or grandparent box *

Adult Names _____

Address _____ City _____ County _____ State _____ Zip _____

Names and birthdates of children _____

Home Phone # _____ Work Phone # _____

E-mail address _____ I would not like to receive CSC's member newsletter via email

**As named on membership application & CSC member card*



May 28 – August 28

when the
EARTH SHAKES

CATAWBA SCIENCE CENTER

FLUTTERBY

Butterfly Habitat

May 14 – September 4

Summer Art Camps
Hickory Museum of Art
June 13 - August 19

AGES 4-14
20 Different Camp Themes

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HICKORY MUSEUM OF ART

Camps run Monday - Friday
Morning & Afternoon Camps: 10 AM-12 PM • 1-3 PM
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On the SALT Block • 243 Third Ave. NE • Hickory • 828-327-8576





On the SALT Block
243 Third Avenue NE
Hickory, NC 28601

*Changing Lives and
Inspiring Learning
Through Science
and Wonder.*

CatawbaScience.org
828-322-8169

