CONTENTS

Overview ............................................ 2
Offerings at a Glance ...................... 3-4
K-2nd Grade ..................................... 5
3rd-5th Grade ................................. 6
6th-8th Grade ................................ 7
High School ................................... 8
Special Topics/Assemblies ............. 8
Planetarium Shows ........................ 9-10
Fee Structure ................................... 11
Plan Your Visit ............................. 12
Membership .................................... 13
Science Shop ................................. 14

RESERVATIONS

Monday-Friday 8:30 a.m. to 4:30 p.m.
Phone: (828) 322-8169 • Fax: (828) 322-1585
scheduling@catawbascience.org

Catawba Science Center is a nonprofit science museum offering hands-on exhibits to explore physical, natural, and earth sciences.

Featured amenities include Velo-City, freshwater and saltwater aquarium galleries, including a marine touch pool with LIVE sharks and stingrays, Hall of Astronomy, featured exhibit halls, a digital planetarium theatre, and special-events room for school group lunches and community gatherings.

Located on the SALT Block • Arts and Science Center
243 3rd Avenue NE • Hickory, NC 28601

Only 2.5 miles from I-40, follow the directional signs, or download directions from www.CatawbaScience.org.

Phone: (828) 322-8169 • Fax: (828) 322-1585
schools@catawbascience.org
www.CatawbaScience.org

PUBLIC HOURS:

Tuesday–Friday 10 a.m.–5 p.m.
Saturday 10 a.m.–4 p.m.
Sunday 1 p.m.–4 p.m.

CLOSED ON MONDAYS
Office open: 8:30 a.m.–5 p.m.

Catawba Science Center is a member of:
Association of Science & Technology Centers
NC Grassroots Science Museums Collaborative
Funded Affiliate of United Arts Council of Catawba County.
OFFERINGS AT A GLANCE

CSC programs feature grade-specific, hands-on experiences in natural, physical, and earth sciences. All programs complement the NC Common Core & Essential Standards and goals, as listed below each description. All CSC programs are designed to further students’ understanding of the nature of science.

CLASSROOM PROGRAMS
A field trip to Catawba Science Center is an exciting opportunity for groups to share interactive learning experiences. In addition to your chosen program, your group is free to explore the entire museum. Staff is located throughout CSC to enrich your group’s visit.

Please note: CSC member benefits do not apply for visiting students or chaperones.

Length: 50 or 80 minutes (as noted in descriptions)  
Group size: 30 students maximum per program

Available between 9 a.m. and 4 p.m., Tuesday through Friday

OUTREACH PROGRAMS
Instead of scheduling a field trip to CSC, we can bring some of the same exciting classroom programs to your site. Please note within each class description whether or not the program is offered as outreach.

Length: 50 or 80 minutes (as noted in descriptions)  
Group size: 30 students maximum per program

Available between 9:00 a.m. and 3:30 p.m., Tuesday through Friday

PLANETARIUM PROGRAMS AND SHOWS
The planetarium/digital theater brings the nighttime sky indoors. Programs are available for grades K-12, and focus on stars, the moon, planets, and constellations. Groups can also choose to book a digital theater show for the program fee.

Length: 50 minutes for programs, shows vary in length  
Location: CSC  
Group size: Planetarium programs can accommodate two classes at a time, up to 65 total participants. Since programs held within the planetarium/digital dome theater have limited seating, the number of chaperones admitted per group will vary depending on available space.

Available between 9 a.m. and 2 p.m., Tuesday through Friday.

LUNCH SPACE
CSC has a Special Events Room that accommodates up to 50 at a time. Space is reserved in 30-minute time slots and is reserved on a first-come, first-served basis. Reservation fee of $20 is required. Book early to reserve your space; no other indoor lunch facilities are available year-round. Groups are welcome to picnic on the public lawn.
FIELD TRIP TIPS FOR TEACHERS
Please visit our website, CatawbaScience.org, for tips on planning a successful field trip that is both educational and fun. You can also print grade-specific exhibit guides that include suggestions/questions for your students that are aligned with the North Carolina Essential Standards in Science.

PARK PROGRAMS
Students in grades K-5 will use their science investigation skills to explore ecosystems, including wetlands and woods. Located in northwest Hickory, Glenn Hilton Park affords great learning opportunities, picnic shelters, and play areas for visiting school groups.

The City of Hickory encourages school groups to register in advance to reserve a picnic shelter. Schools from outside Catawba County are required to pay a fee to reserve a shelter. For more information about park guidelines, or to make a reservation, call Hickory City Parks at (828) 322-7046.

Length: 50 or 80 minutes (see description under grade level)
Location: Glenn Hilton Park
Group size: 30 students maximum per program.
Maximum two groups per time slot.

Available between 9 a.m. and 4 p.m., Tuesday through Friday; August through October and April through June

MUSEUM EXPLORATION ONLY
Self-guided explorations without programs are available to any group of 10 or more. The group rate for the self-guided experience is $8 per student.

Please note: CSC member benefits do not apply for visiting students or chaperones.

PRESCHOOL PROGRAMS
CSC preschool educators use puppets, puzzles, live animals, and more to introduce science to your students. Options include an annual contract for either 8 or 16 visits or one-time programs. These programs can be held at your center or Catawba Science Center. Topics include Fossils & Dinosaurs, Insects & Spiders, Magnets, Ocean Animals, Light & Color, Inside the Body, and Junior Engineers.

Cost: $1,340 for 16 visits during school year, $670 for 8 visits; $150 for one-time outreach programs + mileage
Length: 45 minutes
Group size: 25 students maximum per program

For more information, please contact programs@catawbascience.org.
KINDERGARTEN - 2ND GRADE

CREATURE FEATURE (Kindergarten)
Explore and discover different animals groups such as insects, spiders, sea life, and birds in this station-based program. Compare life cycles of different animals and investigate their habitats. Meet some of CSC’s resident live animals. Program held at CSC only.
Time: 50 minutes
Science Goals: K.L.1.1, K.L.1.2
Math Goals: K.CC.4; K.CC.5; K.MD.3; K.G.1
ELA: SL1, 2, 3, 4, 6

LITTLE SCIENTISTS (Kindergarten)
New Experiment This Year!
Learn about the properties of different substances and the names of some cool science tools. Make some snow to take home. Be ready to put on your safety glasses and experiment!
Time: 50 minutes
Science Goals: K.P.1.1, K.P.1.2, K.P.2.1, K.P.2.2
Math Goals: K.MD.2; K.MD.3; K.G.1
ELA: SL1, 2, 3, 6

EXPLORING NATURE (Grades K-1)
Explore wetland and forest habitats. Discover the similarities and differences between plants and animals. Learn about their needs and how they change over time. Program held at Glenn Hilton Park August-October and April-June.
Time: 50 minutes
Kindergarten Goals
• Science: K.L.1.1, K.L.1.2, K.E.1.1, K.E.1.3
• Math: K.CC.4, K.CC.5, K.G.1; ELA-SL1, 2, 3, 6
First Grade Goals
• Science: 1.L.1.1, 1.L.1.2, 1.L.1.3, 1.L.2.1, 1.L.2.2, 1.E.2.2
• ELA: SL1, 2, 3, 4, 6

EARTHY MATTERS (Grade 1)
Classify and make discoveries about soil, rocks, and minerals. Learn about creatures that live in the soil. Program held at CSC.
Time: 50 minutes
Science Goals: 1.E.2.1, 1.E.2.2, 1.L.1.1
Math Goals: 1.MD.2
ELA: SL1, 2, 3, 4, 5

PUSH ME, PULL ME (Grade 1)
Experiment with forces and balance and discover how pushes and pulls can make things move. Play with all sorts of magnets and make cool discoveries! Program available for outreach and at CSC.
Time: 50 minutes
ELA: SL1, 2, 3, 4, 6

UP IN THE SKY (Grade 1)
Gaze upward and identify the things found in the sky during day and night. Observe seasonal stars and constellations. Includes a viewing of The Moon, a detailed, age-appropriate look at the moon’s phases. Program available only at CSC in the Millholland Planetarium.
Time: 50 minutes
Science Goals: 1.E.1.1, 1.E.1.2
ELA: RL2; SL1, 2, 3, 4, 6

LIFE CYCLES IN NATURE (Grade 2)
Take a walk through the woods and wetlands to observe life cycles in nature. Compare life cycles of ladybugs, butterflies, ants, and more using models and games. Program held at Glenn Hilton Park April-June.
Time: 50 minutes
Science Goals: 2.L.1.1; 2.L.1.2
ELA: SL1, 2, 3, 4, 5

SOUNDS GOOD (Grade 2)
Make waves and vibrations while investigating the science of sound. Experiment with simple instruments and observe changes in pitch and volume. Program available for outreach and at CSC.
Time: 50 minutes
Science Goals: 2.P.1.1, 2.P.1.2
ELA: SL1, 2, 3, 4, 5

SCIENCE MATTERS (Grade 2)
Investigate solids and liquids and how they can change. Observe how various types of matter respond to temperature changes using liquid nitrogen. Mix up some slime to take home! Program available as outreach and at CSC.
Time: 50 minutes
Science Goals: 2.P.2.1; 2.P.2.2; 2.P.2.3
ELA: SL1, 2, 3, 4, 5

WEATHER STATION (Grade 2)
Use weather instruments to measure and describe weather conditions. Investigate the water cycle by making a rain "cloud" and create a "snowstorm" in a test tube! Program available as outreach and at CSC.
Time: 50 minutes
Science Goals: 2.E.1.1; 2.E.1.2; 2.E.1.4
ELA: SL1, 2, 3, 4, 5
3RD - 5TH GRADE

BODY CONNECTIONS (Grade 3)
Investigate body systems, including a look at the skeleton and internal organs. Learn the importance of good nutrition and exercise, and discover the microbes that can make you sick. Pair this with a viewing of Astronaut or Grossology & You in the Millholland Planetarium for an additional fee. Program available for outreach and at CSC.

Time: 50 minutes
Science Goals: 3.L.1.1, 3.L.1.2
Healthful Living Goals: 3.PCH.2.1; 3.NPA.1.1; 3.NPA.1.2; 3.NPA.2.3
ELA: SL1, 2, 3, 4, 6

SEEDS & SOIL (Grade 3)
Dig into the outdoors! Use science tools to examine seeds and plant life up close. Sift through the soils found in the woods to investigate contents. Program available for outreach and at CSC.

Time: 50 minutes
Science Goals: 3.L.2.1, 3.L.2.2, 3.L.2.3, 3.L.2.4
ELA: SL1, 2, 3, 4, 6

MATTER MANIA (Grade 3)
Explore the properties of matter and make some fascinating discoveries about how matter changes. Mix up some solids and liquids and investigate the gases that fizz and bubble. Program available for outreach and at CSC.

Time: 50 minutes
ELA: SL1, 2, 3, 4, 6

SKY SEARCHERS (Grade 3)
Take a look at our solar system and find out where Earth fits. See what’s in our current night sky, and discover the secrets of light and shadows. Program available only at CSC in the Millholland Planetarium.

Time: 50 minutes
Science Goals: 3.E.1.1, 3.E.1.2
ELA: SL1, 2, 3, 4, 6

EARTH, MOON AND STARS (Grade 4)
Astroadventurers will explore the relationship among the earth, moon and stars. Master the meaning behind the moon’s movement. Program available only at CSC in the Millholland Planetarium.

Time: 50 minutes
Science Goals: 4.E.1.1, 4.E.1.2
ELA: SL1, 4, 6

ENERJAZZED (Grade 4)
Get super-charged in this energetic program. Use magnets, lasers, and more to investigate all kinds of energy. It will be a hair-raising experience! Program available for outreach and at CSC.

Time: 50 minutes
ELA: SL1, 4, 6

ROCK HOUNDS (Grade 4)
Be a geologist! Uncover the differences between rocks and minerals. Classify rocks based on their composition. Investigate properties of minerals and perform tests to identify them. Program available for outreach and at CSC.

Time: 50 minutes
ELA: SL1, 4, 6

SQUID SCIENCE (Grade 4)
Dive in and discover the unique characteristics of squid. Learn how their adaptations make them suited to life in the ocean. Take a peek at the inside, too. Materials fee of $6 per squid required. Students should dress appropriately for this messy experience. Program available for outreach and at CSC.

Time: 50 minutes
Science Goals: 4.L.1.2, 4.L.1.4
ELA: SL1, 4, 6

ECOSYSTEMS IN DEPTH (Grade 5)
Explore the living and nonliving factors in forest and wetland ecosystems with a special focus on the interactions of plants and animals. Program held at Glenn Hilton Park August-October and April-June.

Time: 80 minutes
Science Goals: 5.L.2.1, 5.L.2.2, 5.L.2.3
ELA: SL1, 3, 4, 6

FIRE AND ICE (Grade 5)
Use your bare hands to cause a color change and make a liquid boil. Make fascinating, hands-on discoveries about conduction, convection, and radiation. Be prepared to observe fiery demonstrations! Program available only at CSC.

Time: 50 minutes
Science Goals: 5.P.3.1, 5.P.3.2
ELA: SL1, 3, 4, 6

INSIDE OUT (Grade 5)
Learn about the major systems of the human body by comparing them to those of a preserved frog. Students will work in teams of four or five. Additional specimen fees apply ($6.00 per frog). Students should dress appropriately for this messy experience. Program available for outreach and at CSC. Pair this with a viewing of Grossology & You in the Millholland Planetarium for an additional fee.

Time: 50 minutes
Science Goals: 5.L.1.2
Healthful Living Goals: 5.PCH.4.2, 5.PCH.4.3
ELA: SL1, 3, 4, 6

WEATHER UNDER PRESSURE (Grade 5)
Learn about the different factors that affect our weather. Discover how cloud formation is related to weather patterns and precipitation. Observe convection currents and the amazing effects of air pressure. Pair this with a viewing of Force 5 or Weather: Wonders & Mysteries Revealed in the Millholland Planetarium for an additional fee. Program available for outreach and at CSC.

Time: 50 minutes
ELA: SL1, 3, 4, 6

CELL ENCOUNTERS (Grade 5)
Use microscopes to view unicellular and multicellular organisms. Play genetic Bingo and extract DNA from the nucleus of your own cells!

Time: 50 minutes
Science Goals: 5.L.1.1, 5.L.3.1, 5.L.3.2
ELA: SL1, 3, 4, 6
6TH - 8TH GRADE

AN EYE OPENING EXPERIENCE (Grade 6)
See for yourself how the eye works by dissecting a cow’s eye. Discover where light is refracted and reflected in its path through the eye. Students work in teams of 2-3 for the dissection. Additional specimen fees may apply ($3.50 per eye). Students should dress appropriately for this messy experience. Program available for outreach and at CSC.

**Time:** 50 minutes

**Science Goals:** 6.P.1.2, 6.P.3.2

**ELA:** SL1, 2, 4, 6

SOLAR SYSTEM 101 (Grade 6)
An examination of the unique features of the members of our solar system, and their influence on each other, including tides and eclipses. A review of space exploration, past and present. See it all on the dome! Program available only at CSC in the Millholland Planetarium.

**Time:** 50 minutes

**Science Goals:** 6.E.1.1, 6.E.1.2, 6.E.1.3

**ELA:** SL1, 2, 4, 6

IT’S ELEMENTAL (Grade 6)
Beginning chemists meet here! An investigation into atoms, elements, and physical properties of matter. Experiment with density, volume, and mass, and use your new science skills to identify an unknown element. Program available for outreach and at CSC.

**Time:** 50 minutes

**Science Goals:** 6.P.2.1, 6.P.2.2, 6.P.2.3

**ELA:** SL1, 2, 4, 6

RIDE THE WAVE (Grade 6)
Enhance your students’ understanding of light, sound, and seismic waves with hands-on experiments and exciting demonstrations. Program available as outreach and at CSC.

**Time:** 50 minutes

**Science Goals:** 6.P.1.1, 6.P.1.2, 6.P.1.3

**ELA:** SL1, 2, 4, 6

MICRO-INVESTIGATIONS (Grade 7)
Review the basics of cell biology by microscopic examination of plant and animal cells. Observe the locomotion of living Amoeba, Paramecia, and Euglena and their organelles in action! Students work in small groups of 4-5. Program held at CSC Wednesday through Friday only. An additional materials fee of $40 is required (fee covers multiple classes scheduled on the same day). **Time:** 80 minutes

**Science Goals:** 7.L.1.1, 7.L.1.2, 7.L.1.3

**ELA:** SL1, 2, 4, 6

READY, SET, GO! (Grade 7)
What can frogs, rockets, and roller coasters teach you about energy and motion? What does friction have to do with hovercrafts? Find out in this action-packed class. Program available for outreach and at CSC.

**Time:** 50 minutes

**Science Goals:** 7.P.1.1, 7.P.1.2, 7.P.2.1, 7.P.2.2, 7.P.2.4

**ELA:** SL1, 2, 4, 6

WILD WEATHER (Grade 7)
Learn about the factors that affect our weather. Observe “lightning” and sling a psychrometer to determine humidity. Pair this with a viewing of Force 5 or Weather: Wonders & Mysteries Revealed in the Millholland Planetarium for an additional fee. Program available for outreach and at CSC.

**Time:** 50 minutes


**ELA:** SL1, 2, 4, 6

DAMSELFIES IN DISTRESS (Grade 8)
Students work in small teams to assess the water quality of a local stream. Employ a variety of hands-on testing techniques to evaluate pH, dissolved oxygen, turbidity, nitrates, and phosphates. Discover how damselflies and other macro-invertebrates can be important indicators of water quality. Program available as outreach and at CSC.

**Time:** 80 minutes

**Science Goals:** 8.E.1.1, 8.E.1.3

**ELA:** SL1, 2, 4, 6

RADICAL REACTIONS (Grade 8)
Review chemistry with a peek at the periodic table of elements and explore the basics of reactions with fiery demonstrations. Experiment with systems to test the Law of Conservation of Mass. Program available at CSC only.

**Time:** 50 minutes

**Science Goals:** 8.P.1.1, 8.P.1.2, 8.P.1.3, 8.P.1.4

**ELA:** SL1, 2, 4, 6

SICK SCIENCE (Grade 8)
Delve into the microscopic world of bacteria, fungi, and parasites. Perform a simulated flu test to determine appropriate treatment and participate in a classroom “epidemic.” Program available at CSC only. Pair this with a viewing of Grossology & You in the Millholland Planetarium for an additional fee.

**Time:** 80 minutes

**Science Goals:** 8.L.1.1; 8.L.1.2; 8.L.5.1

**Healthful Living Goals:** 8.PCH.1.3; 8.PCH.2.1

**ELA:** SLA1, 2, 4, 4

ANIMAL INNARDS (Grades 6-8)
Let a CSC educator guide your students through the dissection of a specimen of your choice. Additional specimen fees apply (See pg. 8 for specimen options). Students should dress appropriately for this messy experience. Program available for outreach or at CSC.

**Time:** 50 or 80 minutes, dependent upon specimen

**Science Goals:** 8.L.1.1; 8.L.1.2; 8.L.5.1

**Healthful Living Goals:** 8.PCH.1.3; 8.PCH.2.1

**ELA:** SLA1, 2, 4, 4
HIGH SCHOOL

ANIMAL INNARDS (Grades 6-12)
Let a CSC educator guide your students through the dissection of an animal or organ of your choice. Students work in teams of 2-5 depending on specimen. Specimen options and their additional costs are listed below. Students should dress appropriately for this messy experience. Program available for outreach or at CSC.

**Time:** 80 minutes for organisms or 50 minutes for organs
- Squid - $6.00
- Frogs - $6.00
- Cow eyes - $3.50
- Pig hearts - $10.00
- Fetal pigs - $25.00

EARTH IN SPACE
Dive deep into the science of space with hands-on activities and a viewing of “Stars: Powerhouses of the Universe” in the Millholland Planetarium. Students will investigate the formation of galaxies, stars, and planets; Earth’s location and movement in the universe; the properties of stellar gases and the energy of space. Program will be held in a CSC classroom and in the Millholland Planetarium. The program is only available at CSC.

**Time:** 80 minutes
**Earth/Environmental Science Goals:** EEn.1.1.1, EEn.1.1.2, EEn.1.1.3, EEn.1.1.4

HYDROMANIA
Students work in small teams to assess the water quality of a local stream. Employ a variety of hands-on testing techniques to evaluate pH, dissolved oxygen, turbidity, nitrates, and phosphates. Discover how damselflies and other macro-invertebrates can be important indicators of water quality. Program available as outreach and at CSC.

**Time:** 80 minutes
**Earth/Environmental Science Goals:** EEn.2.42.

PERFECT FOR LARGE GROUPS

ASSEMBLIES

PHYSICS PHUN
Suggested for upper elementary or middle school
Learn the science behind fascinating physical science demonstrations that illustrate concepts of forces and motion, electricity, air pressure, and more.

**Time:** 50 minutes
**Program requirements:** two 6-foot tables, access to electricity and water.

ROCKIN REACTIONS
Suggested for upper elementary or middle school
Learn some basics of chemistry through these sometimes fiery demonstrations. Program includes liquid nitrogen favorites, elephant toothpaste, and more.

**Time:** 50 minutes
**Program requirement:** one 6-foot table, access to water

FAMILY SCIENCE NIGHT
Suggested for Kindergarten through 5th grade.
Book an exciting evening of STEM activities for elementary students at your school! Students will investigate favorite topics in science, math, and engineering at ten different hands-on stations. Perfect for a family science night or PTO event! School must provide supervision at each station.

**Time:** 1-2 hours
**Cost:** $175 + mileage for one hour; $350 + mileage for two hours.

Assembly programs and Family Science Night available as outreach only.
AS ASTRONAUT
The exploration of space is the greatest endeavor that humankind has ever undertaken. What does it take to be part of this incredible journey? What does it take to become an astronaut? Astronaut takes you from Earth into space... and beyond. (K-Grade 12)

BLACK HOLES: THE OTHER SIDE OF INFINITY
Black Holes takes you on a journey through one of the most mystifying, awe-inspiring phenomena in the universe: a black hole. Where do they come from? Where do they go? How do we find them? (Grades 9-12)

COSMIC CASTAWAYS
There are places where the night sky has no constellations - no Orion, no Big Dipper, nothing but a few lonely, far away stars and a few faint, ghostly patches of light. Most stars lie within the crowded boundaries of galaxies, traveling in a vast galactic family. But some find themselves on their own, deep within voids between the galaxies. These are the cosmic castaways. (Grades 6-12)

DYNAMIC EARTH
Explore the inner workings of the Earth’s climate systems, including the atmosphere, hydrosphere and biosphere, with visualizations based on satellite monitoring data and advanced supercomputer simulations. (Grades 5-12)

EXTREME PLANETS
From water worlds to molten landscapes, habitable moons to planets with multiple moons, these exotic worlds aren’t just science fiction anymore. (Grades 6-12)

FAQS: ASTRONOMY & SPACE
A program which seeks to answer your questions. What is the brightest star in the sky? What is the most distant object you can see with just your eyes? Who invented the telescope? And more... (Grades 6-12)

FORCE FIVE
Extreme weather takes center stage. See and feel what it would like while standing in the middle of a deadly storm. (Grades 5-8)

FRACTALS ARE SMART: SCIENCE, MATH AND ART!
What is a fractal anyway? Learn about these mathematical patterns through art, music and stunning visuals. (Grades 6-12)

GROSSOLOGY AND YOU
What’s the most important system of the human body — immune, respiratory or digestive? This animated adventure draws a teenage boy into a lively game show to answer this question. (Grades 3-8)

HOW OLD IS THE UNIVERSE?
Experience the 14 billion year age of the universe shrunk down to just one year. (Grades 6-12)

ICE WORLDS
A tour of the icy landscapes of our solar system, especially our home, Earth. Explore the critical relationship between ice and life. (Grades 6-12)

INFINITY EXPRESS
A grand tour of the world of astronomy - from Mars and Jupiter to the Space Program to the structure of the Universe. (Grades 6-12)

INTO THE DEEP
An illuminating journey exploring the deep sea and rarely seen marine organisms including bio-luminescent frogfish, jellyfish, vampire squid and more. (Grades 4-12)

LASER SHOWS
Themed shows (Christmas, Halloween, patriotic) and various artists available. Call CSC for show options. (K-Grade 12)

LEGENDS OF THE NIGHT SKY: ORION
Take an imaginative look at the legend of the constellation Orion, the great hunter of the winter sky, his two hunting dogs, and Scorpius, the scorpion in the summer sky. (K-Grade 5)

MOLECULARIUM: RIDING SNOWFLAKES
Review the states of matter and learn all about atoms and molecules in this animated feature. (Grades 2-8)

ONE WORLD, ONE SKY: BIG BIRD’S ADVENTURE
Big Bird and his friends Elmo and Hu Hu Zhu explore how the Earth, moon and night sky are similar for all people no matter where they live. Through their imagination, they also take a trip to the moon. (PK-Grade 2)

PHANTOM OF THE UNIVERSE
An exciting exploration of dark matter from CERN’s MediaLab, from the Big Bang to its anticipated discovery at the Large Hadron Collider. (Grades 9-12)

SEEING! A PHOTON’S JOURNEY ACROSS SPACE, TIME AND MIND
Travel from the core of a distant star, across the galaxy, and into our eye with a photon. (Grades 6-12)

S.E.T.I. - THE SEARCH FOR EXTRA-TERRESTRIAL INTELLIGENCE
Explore all sides of this topic, from the planets found around other stars, to the feasibility of traveling to the stars, and what aliens might actually look like. (Grades 4-12)

STARS: THE POWERHOUSES OF THE UNIVERSE
Every star has a story. Some are as old as time, faint and almost forgotten. Others burn bright and end their lives in powerful explosions. New stars are created every day, born of vast clouds of gas and dust. (Grades 6-12)
**SUNSTRUCK**
Discover the wonders of our Sun. Its incredible energy has supported life on earth for millennia, but is now threatening our technology and way of life. Travel to the distant future to discover our sun’s connection to the universe’s cosmic cycle of life and death. (Grades 6-12)

**THE LITTLE STAR THAT COULD**
Journey with ‘Little Star’ as he meets other stars, learns what makes each star special and discovers how they combine to form star clusters and galaxies. Eventually, Little Star finds his planets and each is introduced with basic information about our Solar System. (PK-Grade 5)

**THE SECRET OF THE CARDBOARD ROCKET**
Embark on an outstanding adventure as two children spend a night touring the solar system alongside their ship’s navigator, an astronomy book, in this animated feature. (PK-Grade 2)

**THE ZULA PATROL: UNDER THE WEATHER**
Join the Zula Patrol on an exciting expedition across the sky. When the nefarious Dark Truder steals the weather from the solar system planets, the Zula gang goes after him, discovering both terrestrial and planetary weather along the way. (PK-Grade 3)

**WEATHER: WONDERS & MYSTERIES REVEALED**
This show explores fascinating weather phenomena found on planet Earth. From thunderstorms, tornadoes and hurricanes, to beautiful rainbows, parhelia and lunar halos, this program is a must see for weather enthusiasts! (Grade 5-12)

---

**PLANETARIUM PAIRINGS: PLANETARIUM SHOW + PROGRAM**
Reinforce the content received in your class by combining any digital planetarium feature with a classroom program for an additional fee. Pairings help expand the objectives covered during your CSC visit.

- **ASTRONAUT + BODY CONNECTIONS** (3rd Grade)
- **MOLECULARIUM + SCIENCE MATTERS** (2nd Grade)
- **MOLECULARIUM + MATTER MANIA** (3rd Grade)
- **WEATHER: WONDERS AND MYSTERIES REVEALED/ FORCE 5 + WILD WEATHER** (7th Grade)
- **WEATHER: WONDERS AND MYSTERIES REVEALED/ FORCE 5 + WEATHER UNDER PRESSURE** (5th Grade)
- **GROSSOLOGY & YOU + SICK SCIENCE** (5th Grade)
- **GROSSOLOGY & YOU + BODY CONNECTIONS** (3rd Grade)
- **GROSSOLOGY & YOU + INSIDE OUT** (8th Grade)

---

**VELO-CITY COMING FALL 2019**

---

**CHANGING LIVES AND INSPIRING LEARNING THROUGH SCIENCE AND WONDER**
### PROGRAM FEES

<table>
<thead>
<tr>
<th>Program</th>
<th>Min. # Students Per Program</th>
<th>Max. # Students Per Program</th>
<th>Fees</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>One Program</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Hands-on classroom program at CSC, park, or in planetarium.</td>
<td>20 (groups with less than 20 will be charged for 20)</td>
<td>30</td>
<td>$9 per student  (includes tours of CSC exhibits; school staff free)</td>
</tr>
<tr>
<td><strong>Two Programs</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Combination of classroom, planetarium, and/or park programs for same group of students</td>
<td>20 (groups with less than 20 will be charged for 20)</td>
<td>30</td>
<td>$13 per student (includes tours of CSC exhibits; school staff free)</td>
</tr>
<tr>
<td><strong>Three Programs</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Combination of classroom, planetarium, and/or park programs for same group of students</td>
<td>20 (groups with less than 20 will be charged for 20)</td>
<td>30</td>
<td>$17.25 per student (includes tours of CSC exhibits; school staff free)</td>
</tr>
<tr>
<td><strong>Outreach Program at Your School</strong></td>
<td>N/A</td>
<td>30</td>
<td>$200 per program (Plus current federal mileage rate)</td>
</tr>
<tr>
<td><strong>Science Assembly at Your School</strong></td>
<td>N/A</td>
<td>200</td>
<td>$445 per assembly</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>$400 each additional show on same day</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Plus current federal mileage rate</td>
</tr>
<tr>
<td><strong>Self-guided CSC Exhibit Exploration</strong></td>
<td>10</td>
<td>N/A</td>
<td>$8 per student</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>1 staff or chaperone/10 students = free</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>each additional adult = $8</td>
</tr>
<tr>
<td><strong>Family Science Night</strong></td>
<td>N/A</td>
<td>N/A</td>
<td>$175 + mileage for one hour;</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>$350 + mileage for two hours.</td>
</tr>
</tbody>
</table>

**Payment**

Schools will be invoiced for all onsite visits. Outreach payments are due in full when CSC staff arrive to deliver a program at your school unless prior arrangements are made for invoicing.

*Membership admission discounts are not applicable with group visits.

**Programs Outside the Unifour Area**

Outreach programs conducted in counties other than Alexander, Burke, Caldwell and Catawba must total at least $400 (plus mileage) per day. Mileage will be charged for all programs. For programs that require an overnight stay by CSC staff, a per diem and hotel fee apply.
PLAN YOUR VISIT

Fill out this worksheet prior to contacting Catawba Science Center for an easier scheduling experience. Once scheduled, visit CSC’s website to better prepare for the day of your field trip. You can also print grade-specific exhibit guides that include suggestions/questions for your students that are aligned with the North Carolina Essential Standards in Science.

Program Title/s ___________________________ Grade Level ___________________________

Planetarium Show/s ___________________________ Total number of students ___________________________

Group size for programs is limited to 30 participants. Minimum is 20. If your group is smaller than 20, you will still be charged for the minimum amount.

Date ___________________________
Alternate #2 ___________________________
Alternate #3 ___________________________

Please note: CSC has the highest group visitation in March, April, and May, between the hours of 9 a.m. and noon.

While there are no guarantees, it is more likely that there will be fewer other groups visiting if you schedule outside of the above months and times.

Earliest arrival time: ___________________________
Latest departure time: ___________________________

Do you want your program at CSC or at your school? ___________________________

The Special Events Room (located in the planetarium building) can accommodate groups of 50 at a time for lunch. Reserved in 30 minute time slots per group of 50, on a first come, first served basis. A $20 fee is required to reserve the room. Groups are welcome to picnic on the public lawn at no charge. No other lunch facilities are available at CSC year round.

Special Events Room (for lunch)  Yes  No
Preferred lunch time ___________________________

Now you’re ready to make a reservation:

Email: scheduling@catawbascience.org
Or Call: (828) 322-8169, ext. 301

We encourage you to schedule well in advance.

Please do not fax this worksheet in lieu of a phone call or e-mail.

Cancellations: Please notify us immediately if you need to reschedule or cancel your visit. “No shows” and groups canceling within 24 hours of their scheduled visit will be charged the full amount. In the event of a rained-out program at Glenn Hilton Park, groups are encouraged to reschedule or have a self-guided exploration of CSC exhibits.
Educators take $10 off Annual Membership purchases!

Membership Application
O Mr. O Mrs. O Miss O Ms. O Dr. O Other
Adult #1 Name ____________________________
Mailing Address ____________________________
City __________________ State _____ Zip ______
Phone ____________________________
Email ____________________________
O Mr. O Mrs. O Miss O Ms. O Dr. O Other
Adult #2 Name ____________________________
Full Name(s) & Birthday(s) of Child(ren) ____________________________

This membership is: O Renewal O New O Gift
If gift membership:
Gift From ____________________________
Recipient Name ____________________________
Mailing Address ____________________________
City __________________ State _____ Zip ______
Phone ____________________________
Email ____________________________
Membership Level: (check one)
O College Student, $45
O Senior, $45
O Individual, $60
O Grandparent, $75
O Family, $75
O Patron, $100+
O Benefactor, $250+
I’d like info on
O EVENTS
O HOMESCHOOL
O SCHOLARSHIPS
O B-DAY PARTIES
O CAMPS
O VOLUNTEERING

MEMBERSHIP BENEFITS*

MEMBERSHIP LEVELS

ANNUAL

<table>
<thead>
<tr>
<th>Individual</th>
<th>Family/Grandparent</th>
<th>Senior/College Student</th>
<th>Patron</th>
<th>Benefactor</th>
<th>Stellar Society</th>
<th>Angel</th>
<th>President’s Circle</th>
<th>Philanthropist</th>
<th>Altruist</th>
<th>Corp. Member Upgrade</th>
</tr>
</thead>
<tbody>
<tr>
<td>$45</td>
<td>$75</td>
<td>$45</td>
<td>$95</td>
<td>$250+</td>
<td>$500+</td>
<td>$1,000</td>
<td>$2,500+</td>
<td>$5,000+</td>
<td>$10,000+</td>
<td>$20</td>
</tr>
</tbody>
</table>

*To receive $10 educator discount, valid ID is required at the time of purchase.

Choose Your Payment Method

Payment
Membership Fee $ _______
Educator/Active Duty Military Member Discount - $ _______ ( $10 off with ID) Grand Total: $ _______

Billing Information
O Please charge my: O Visa O MasterCard O Discover
Name on Card ____________________________
Card Number ____________________________
Exp. Date __________________ Security Code ____________________________
Signature ____________________________

Enclosed is my check made payable to Catawba Science Center

www.catawbascience.org

*See website for details
SHOP FOR SCIENCE

DON'T FORGET TO VISIT CSC'S SCIENCE SHOP, AT TWO LOCATIONS.

Teachers will find a variety of resources for the classroom, including science kits, colorful guidebooks, telescopes, ideas for science projects, and a series of workbooks with engaging science experiments that support National Science Education Standards.

Receive a 10% discount on purchases in the Science Shop with your teacher ID.

The Science Shop also features science-related gifts with aquatic and astronomy themes, as well as puppets, puzzles, posters, T-shirts, tote bags, and more. Prices start as low as $1.00 for young shoppers.

To learn more about these and other items specially priced for student shoppers, contact the Science Shop manager at (828) 322-8169 x 309.
Thank you to CSC’s Partners in Science for providing essential support for science education programs during the 2019-2020 school year. Their support helps CSC keep program fees low so more area schools can participate in hands-on science education at CSC.

**PREMIER LEVEL**

Wells Fargo Foundation
Broyhill Family Foundation

**EXECUTIVE LEVEL**

Carolina Container Company
Pepsi-Cola Bottling Company of Hickory NC Inc.

**PARTNER LEVEL**

Aiken – Black Tire Service, Inc
American Emergency Vehicles
Barringer Moving & Storage LLC
Brittain Engineering Inc
Broome Associates
Carolina Tape & Supply Corp
Century Services
Corporate Management Services
David E Looper & Company
Davidson, Holland, Whitesell & Co, PLLC
East Carolina Anesthesia Assoc, PA
First Citizens Bank
Hickory Sheet Metal
HK Research Corporation
Lenoir-Rhyne University
Medical Center Pharmacy

Morrisette Paper
Paramount Automotive Group
Piedmont Natural Gas
Republic Services, Inc.
Rotary Club-Hickory
Rotary Club of Lake Hickory
Sigmon Painting and Wallcovering
Sign Systems, Inc
Shuford Yarns, LLC
Sonoco Products Co
Taylor & Viola Structural Engineers
TurfPro Landscape
vonDrehle Corporation
Unifour Fire and Safety
Sharpe Business Systems

**FRIEND LEVEL**

Carolina West Wireless
Joyce Corbett
CR Laine Furniture
Russell L Isenhour, CPA PC
Trailer Sales & Service, Inc
Rob and Townes Wessels
BB&T

**IN-KIND**

Foothills Digest
James Oxygen & Company
HSM Solutions
Valdese Weavers

For more information about how your business can give back to the community as a CSC Partner in Science, call (828) 322-8169 or e-mail: dev@CatawbaScience.org

Catawba Science Center • On the SALT Block • 243 Third Avenue NE • Hickory, NC 28601

www.CatawbaScience.org