Catawba Science Center offers hands-on learning and interactive exhibits that explore physical, natural, and earth sciences.

Homeschool classes offer enriching science opportunities for preschool through high school learners in geology, biology, astronomy, environmental science, and more! Classes are designed to be hands-on, as well as age and science content appropriate.

Catawba Science Center is on the SALT Block at 243 Third Ave NE in Hickory.

www.CatawbaScience.org
**Registration Information**

**Preschool – High School Classes**

**WHEN:**
- **Pre-K – 8th Grade:** Choose the Tuesday or Wednesday in the third week of each month.
- **High School:** Wednesdays in the third week of each month.*

**CLASS TIME:**
- 1:00 PM - 2:30 PM

**Dissection Classes**

**WHEN:**
- Wednesdays in the third week of each month.*

**CLASS TIME:**
- 10:30 AM to 12:00 PM

*Tuesday classes may be added if demand is present.

**CHECK-IN:**
10 minutes prior to class time in the West Education Building lobby (adjacent to the main Arts and Science Center Building).

**SIGN OUT:**
To ensure student safety, we require that parents go to individual classrooms and sign their children in and out.

**COST:**
- **Preschool – 8th Grade:**
  - CSC Members: $15 per class ($120 entire year)
  - Non-members: $25 per class ($200 entire year)
- **High School:**
  - CSC Members: $20 per class
  - Non-members: $30 per class

**DISSECTION:**
- **CSC Members:** $17.50 - $24.00 per class as listed ($160 entire year)
- **Non-members:** $27.50 - $34.00 per class as listed ($250 entire year)

**QUESTIONS:**
Please contact Erin Graves, CSC Director of Programs at (828) 322-8169 or programs@catawbascience.org

**Registration & Refunds**

Payment and registration forms are required to reserve your child’s space. Classes will be filled on a first-come, first-served basis. If you need to cancel a registration, you must do so at least two weeks prior to the class date in order to receive a refund, minus an administrative fee of $5.

Please note, CSC reserves the right to cancel a class (and issue full refunds) if minimum enrollment is not met.

If you sign up for the year, refunds will not be paid for missed programs, unless they are canceled by CSC.

An optional payment plan will allow for installments to be paid throughout the year. $40 per child and membership, if applicable, must be paid at time of registration. Call (828) 322-8169 for details.

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**DISSECTION SERIES**

*ages 13 and up*

Enhance your biology curriculum with the following dissections. Classes will focus on classification, adaptions, and comparative anatomy. Students will work collaboratively to investigate their specimen. The strand builds on complexity and skill throughout the year. Specimen fees are included in class prices.

<table>
<thead>
<tr>
<th>Date</th>
<th>Specimen(s)</th>
<th>Class &amp; Specimen Fee</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sept 18</td>
<td>Earthworm/crayfish/grasshopper</td>
<td>$17.50</td>
</tr>
<tr>
<td>Oct 16</td>
<td>Squid/clam</td>
<td>$17.00</td>
</tr>
<tr>
<td>Nov 13</td>
<td>Sea urchin/perch</td>
<td>$17.50</td>
</tr>
<tr>
<td>Dec 18</td>
<td>Snake</td>
<td>$19.50</td>
</tr>
<tr>
<td>Jan 15</td>
<td>Pigeon</td>
<td>$18.00</td>
</tr>
<tr>
<td>Feb 12</td>
<td>Dogfish shark</td>
<td>$18.50</td>
</tr>
<tr>
<td>Mar 18</td>
<td>Cow eye/sheep brain</td>
<td>$24.00</td>
</tr>
<tr>
<td>April 15</td>
<td>Pig heart/sheep lungs</td>
<td>$21.50</td>
</tr>
<tr>
<td>May 13</td>
<td>Fetal pig</td>
<td>$21.00</td>
</tr>
</tbody>
</table>

Please contact Erin Graves, CSC Director of Programs at (828) 322-8169 or programs@catawbascience.org.
Homeschool Educators take $10 off Annual Membership purchases!

Membership Application

- **Mr.** - **Mrs.** - **Miss** - **Ms.** - **Dr.** - **Other**
- Adult #1 Name
- Mailing Address
- City, State, Zip
- Phone
- Email

- **Mr.** - **Mrs.** - **Miss** - **Ms.** - **Dr.** - **Other**
- Adult #2 Name
- Full Name(s) & Birthdate(s) of Child(ren)

This membership is: **Renewal** - **New** - **Gift**

If gift membership:
- Gift From
- Recipient Name
- Mailing Address
- City, State, Zip
- Phone
- Email

**Membership Level:** (check one)

- **College Student,** $45
- **Senior,** $45
- **Individual,** $60
- **Grandparent,** $75
- **Family,** $75
- **Patron,** $100+
- **Benefactor,** $250+
- **Stellar Society,** $500+
- **Angel,** $1,000+
- **President’s Circle,** $2,500+
- **Philanthropist,** $5,000+
- **Altruist,** $10,000+
- **Corp. Member Upgrade,** $20

I’d like info on

- **EVENTS**
- **HOMESCHOOL CAMPS**
- **SCHOLARSHIPS**
- **B-DAY PARTIES**
- **VOLUNTEERING**

*To receive $10 educator discount, valid ID is required at the time of purchase. For independent home educators, please provide a copy of “Intent to Home School” form submitted to your local school district. Membership cost will be added to total on registration form.*

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2019-2020 EXHIBITIONS SCHEDULE

- **THE ART OF ADVENTURE:** Photographs & Artwork from the World Travels of Jeff Cline
  August 24 – January 4, 2020

- **HOW CREATIVITY HAPPENS**
  September 7, 2019 - January 5, 2020

- **PAUL de LONGPRÉ STILL LIFES**
  January 11-March 15 2020

- **COLLECTING AND CREATING:** Juan Logan’s Sources of Inspiration
  January 18, 2020 - May 20, 2020

- **73rd ANNUAL PAUL WHITENER STUDENT ART SHOWS**
  Elementary: March 21 - April 5, 2020
  Middle/High School: April 9 - 26, 2020

Visit hickoryart.org/educators for more details or contact Ginny Zellmer at 828.327.8576, ext. 207 or gzellmer@hickoryart.org.
Science Class Descriptions

Pre-K – Kindergarten

September 17-18: Bubbly Science
Experiment with bubble-making and create a bubble-art masterpiece. The fun will bubble over!

October 15-16: Simple Machines
Find out how simple machines make our work easier. Explore gears and make things move.

November 12-13: Into the Deep Blue Sea
Discover the animals that live under the waves. Make an ocean in a baggie. Discover which male sea creature carries the babies.

December 17-18: Wonderful Weather
Discover the power of the sun, the importance of rain, why the wind blows, and how it snows. Make your very own weather chart to take home!

January 14-15: Who Lives in the Desert?
Explore the animals and plants that live in the sand, including a tarantula and lizard. Make a cactus to take home.

February 11-12: Build It
Hey junior engineers! Get creative using unusual construction materials including popcorn, toothpicks, gumdrops, and beyond.

March 17-18: Air, Air All Around
Experiment with air and the many things it can do. Make your own windsock

April 14-15: Slimy Simple Science
Find out how to do some fun, slimy science at home. Make no-cook play dough, sidewalk chalk, slime and more!

May 12-13: Animals in the Sky
Bring your favorite stuffed animal then let’s find it in the night sky in the Millholland Planetarium! Listen to stories and look for shapes and colors up above.

1st – 3rd Grade

September 17-18: Seashore Creatures
Get to know the invertebrates that live along the seashore. Visit our touch tanks for an up close look!

October 15-16: Autumn Leaves
Explore the many colors of fall and the science behind this change.

November 12-13: Color my World
Use prisms and lenses to investigate color and light. Build your own kaleidoscope.

December 17-18: Swoosh!
Explore properties of wind using the book Mirandy and Brother Wind. Create a car that moves by your lung power.

January 14-15: Mighty Machines
Pulleys, levers, and screws – oh my! Investigate simple machines and put your new knowledge to the test.

February 11-12: Wild Weather Ride
Explore all things weather-related on our planet and others too. Watch Zula Patrol: Under the Weather in the Millholland Planetarium

March 17-18: Play Dead ‘Possum
Discover the fascinating attributes and behaviors of this nocturnal creature.

April 14-15: Our Universe
Travel around the solar system and see the Milky Way in the Millholland Planetarium. Learn about planets, the moon, and our nearest star.

May 12-13: Fun With Food
Experiment with the things you eat and learn about nutrition. Make healthy snacks to enjoy.

4th – 6th Grade

September 17-18: Science Skills
Discover the properties of liquids and learn the scientific method while experimenting with water. Make a magic star!

October 15-16: Bug Off!
Dissect a grasshopper and learn many buggy facts.

November 12-13: Toying Around
Experiment with toys and make discoveries about convection, conduction, and radiation. Find out about the law of conservation of energy.

December 17-18: The Essence of Bioluminescence
Experiment with cool blue light. Watch Into the Deep in the Millholland Planetarium and learn truly illuminating facts about underworld sea creatures.

January 14-15: Lights and Lenses
Uncover the properties of light and color. Experiment with polarized light and lasers.

February 11-12: What’s In a Cell?
Put your microscope and lab skills to the test to examine cells up close. Extract real DNA and take it home!

March 17-18: Moon Mania
Learn about the moon and its phases. What does the surface of the moon look like? What do other moons in the solar system look like? Find out in the Millholland Planetarium.

April 14-15: Ribbet, Ribbet
Dissect a frog and discover fascinating amphibian facts. Additional specimen fee of $3.00 required.

May 12-13: Dendrology 101
Do trees have veins and scars? Use field guides and scientific keys to identify trees. Discover how tree rings can tell us more than just their age.
Science Class Descriptions

7th – 8th Grade

September 17-18: The Name Game
Kingdom, phylum, class, order — where do you fit in? Learn the science of taxonomy.

October 15-16: Reptile Round-up
What makes an animal a reptile? How do snakes differ from lizards? Get ready for some scaly encounters.

November 12-13: It’s Elementary
The periodic table is elementary. Use molecular models and play games while learning about atoms, elements, and compounds.

December 17-18: Dry Ice Investigations
Gain an understanding of matter, the nature of gases, and phase changes by experimenting with bubbling, mysterious dry ice. Brrr!

January 14-15: Discover Astronomy
Investigate the formation of galaxies, stars, and planets. Watch Stars: Powerhouses of the Universe in the Millholland Planetarium.

February 11-12: Waves, Waves, Waves
Investigate sound, light, and seismic waves through hands-on experiments using lasers, tuning forks, and toys.

March 17-18: Inside a Cell
Observe the differences between plant and animal cells. Perform a DNA extraction and look at the stuff that makes organisms unique!

April 14-15: Chromosomal Shuffle
Review the basics of Mendelian genetics and learn about the science of inherited traits.

May 12-13: May the Force Be With You
Experiment with Newton’s Three Laws of Motion relating to force, mass, and acceleration. Learn the “magic” of the tablecloth yank.

High School – Biology

September 18: Biomolecule Testing Lab
Perform tests to identify the four major classes of biological molecules.

October 16: Microscopic Life
Learn the proper use of a compound light microscope. Observe protozoa, algae, and invertebrate organisms in pond water, as well as living specimens of Amoeba, Paramecium, and Euglena.

November 13: Cell Structure and Function
Investigate basic cell structure and the cellular functions of osmosis and diffusion. Compare cells of plants, animals, and bacteria.

December 18: DNA Detective
Perform a DNA extraction and take a sample home! Put together a DNA puzzle and make your own model.

January 15: Unzipping DNA
Delve into the science of DNA replication and cell division. Observe mitosis microscopically in an onion root tip and whitefish.

February 12: Biotechnology Basics
Learn how biotechnology is used in real world scenarios. Experiment with micropipetting and gel electrophoresis.

March 18: Lock and Key Science
Learn how enzymes act as biological catalysts in nature. Perform several experiments and discover for yourself why enzymes are such a vital part of biology.

April 15: Plant Parts
Stems, roots, leaves, and much more. Hone your skills and use your knowledge of botany to solve a mystery. Perform a leaf disk assay to observe photosynthesis in action.

May 13: Ramblings in Nature
Break out binoculars and field guides and immerse yourself in the ecosystem at Glenn Hilton Park. Join our Naturalist to identify trees, flowers, and insects. Sharpen your senses as you try to identify birds by sight and sound.
CSC Homeschool 2019-2020 Registration Form

Pre-K – 8th Grade Classes

Please use a separate form for EACH child registering. Photocopies are acceptable, or download additional forms at www.CatawbaScience.org. Return completed form with payment to: Catawba Science Center, PO Box 2431, Hickory, NC, 28603, or fax to (828) 322-1585.

Child’s name __________________________ M  F  Birthdate (mo./day/yr.) ____________ Grade ____________

Parent(s)/Guardian(s) ________________________________________________________________

Primary phone __________________________ Is this: Home ____ Work ____ Cell ____

Secondary phone __________________________ Is this: Home ____ Work ____ Cell ____

Address __________________________ City ________ State ____ Zip ________

E-mail ________________________________

CSC Member? Y      N     (see pg. 3 ) Exp. Date _______________________ Family membership must remain valid through May 31, 2020.

Other individuals allowed to pick up your child(ren): _______________________________________

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

Class Selections: Please circle Tuesday or Wednesday date

<table>
<thead>
<tr>
<th>Sept. 17, 18</th>
<th>Oct. 15, 16</th>
<th>Nov. 12, 13</th>
<th>Dec. 17, 18</th>
<th>Jan. 14, 15</th>
</tr>
</thead>
<tbody>
<tr>
<td>Feb. 11, 12</td>
<td>March 17, 18</td>
<td>April 14, 15</td>
<td>May 12, 13</td>
<td></td>
</tr>
</tbody>
</table>

__ Entire year option, Tuesday or Wednesday (please circle your day of choice)

Class Cost:

CSC Members: $15 per class, $120 per year

Non-members: $25 per class, $200 per year

Payment Method:

__ Check enclosed  __ Please call for information:

Charge my  __ Visa  __ Mastercard  __ Discover

Name on card ________________________________

No. __________________________ Security Code __________________________

Exp. date ___ / ___ / ______ Signature ________________________________

__ I would like to participate in CSC’s payment plan.

If choosing payment plan, $40 per child and membership, if applicable, is due at time of registration.

Signature ________________________________ Date __________________________

Medical Information: (Completion required)

Emergency contact (if parent can’t be reached) _________________________________________

Primary Phone(s) __________________________

Health/Accident Insurance: Employer __________________________ Insurance Co. __________________________ Policy # ____________

Name of Insured __________________________ Dr. __________________________ 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 __________________________ Medications __________________________

I, __________________________, do hereby authorize CSC staff to act on my behalf in seeking any medical treatment or medicine for my son/daughter, __________________________, during the 2019-2020 homeschool program.

Signature ________________________________ Date __________________________

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

Refund policy: A refund minus an administration fee of $5 will be issued if you cancel at least two weeks in advance. Cancellations made within two weeks of a class will not receive a refund. CSC reserves the right to cancel any programs in the event that minimum class enrollments are not met. If this occurs, your payment will be refunded fully.

$_________ Classes subtotal

$_________ Fee subtotal

$_________ Apply membership

$_________ Grand Total
CSC Homeschool 2019-2020 Registration Form

High School Biology and Dissection Classes

Please use a separate form for EACH child registering. Photocopies are acceptable, or download additional forms at www.CatawbaScience.org. Return completed form with payment to: Catawba Science Center, PO Box 2431, Hickory, NC, 28603, or fax to (828) 322-1585.

Child’s name __________________________ M__ F__ Birthdate (mo./day/yr.) __________________ Grade ___

Parent(s)/Guardian(s) __________________________

Primary phone __________________________ Is this: Home ___ Work ___ Cell ___

Secondary phone __________________________ Is this: Home ___ Work ___ Cell ___

Address __________________________ City __________ State ___ Zip ________

E-mail __________________________

CSC Member? Y ___ N ___ (see pg. 3 ) Exp. Date ___________ Family membership must remain valid through May 31, 2020.

Other individuals allowed to pick up your child(ren): __________________________

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

Class Selections: Biology, Please circle your choices.  

Sept. 18 Oct. 16 Nov. 13 Dec. 18 Jan. 15
Feb. 12 March 18 April 15 May 13

Class Selections: Dissection series, Please circle your choices.  

Sept. 18 Oct. 16 Nov. 13 Dec. 18 Jan. 15
Feb. 12 March 18 April 15 May 13

Check if able to switch into Tuesday classes ___Y ___N

Payment Method:

__ Check enclosed __ Please call for information:

Charge my __ Visa ___ Mastercard ___ Discover

Name on card __________________________

No. __________________________ Security Code __________________________

Exp. date ___/___/_______ Signature __________________________

__ I would like to participate in CSC’s payment plan. If choosing payment plan, $40 per child and membership, if applicable, is due at time of registration.

Medical Information: (Completion required)

Emergency contact (if parent can’t be reached) __________________________

Primary Phone(s) __________________________

Health/Accident Insurance: Employer ____________ Insurance Co. ____________ Policy # ____________

Name of Insured __________________________ Dr. __________________________ 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 __________________________ Medications __________________________

I, __________________________, do hereby authorize CSC staff to act on my behalf in seeking any medical treatment or medicine for my son/daughter, __________________________, during the 2019-2020 homeschool program.

Signature __________________________ Date __________________________

Grand Total

Refund policy: A refund minus an administration fee of $5 will be issued if you cancel at least two weeks in advance. Cancellations made within two weeks of a class will not receive a refund. CSC reserves the right to cancel any programs in the event that minimum class enrollments are not met. If this occurs, your payment will be refunded fully.