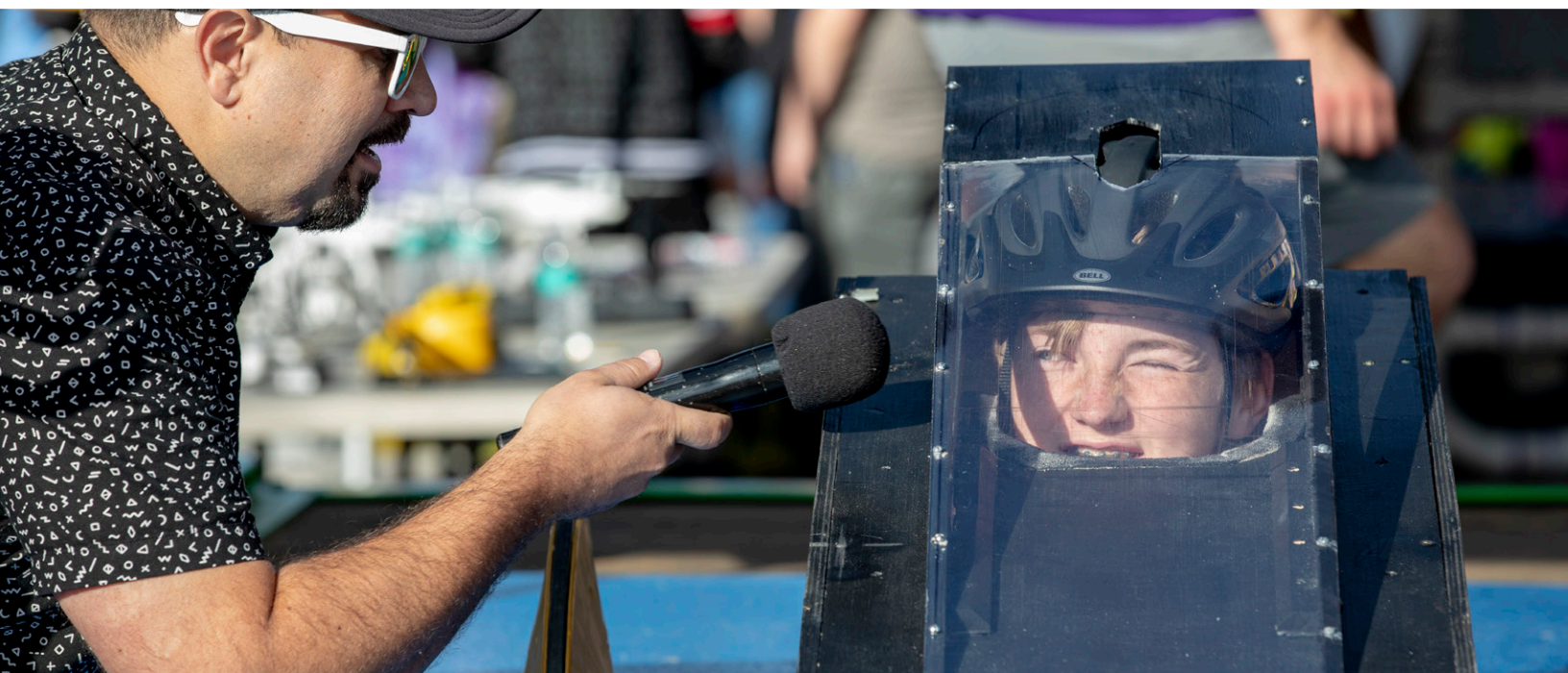




2019

FINAL REPORT





North Carolina Science Festival is a statewide, month-long celebration of STEM — science, technology, engineering and mathematics — with community-based events hosted by museums, science centers, colleges, universities, businesses, parks, libraries, and other sites.

Founded in 2010 by Morehead Planetarium and Science Center at the University of North Carolina at Chapel Hill, the Festival has served more than 2 million participants of all ages since its inception.

The Festival is made possible through generous support from leading business and government partners and through the participation of hundreds of event hosts across North Carolina.

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Cover Photos:
Top Left - UNCG Science Everywhere,
photo courtesy of Jiyoung Park
Bottom - Gravity Games,
photo courtesy of Will and Deni McIntyre

Dear Friends,

The 2019 North Carolina Science Festival had it all thanks to you. We kicked the season off with visits from true American heroes Charlie Duke, who walked on the moon, and Mae Jemison, the first woman of color in space. We produced 170 science nights in elementary schools and facilitated over 50 scientist visits to middle schools. Our public events calendar was as dynamic as ever with incredible events of all shapes and sizes.

After nine festivals, we can confidently say that public science engagement has been woven into the fabric of our communities. What was once brand new has now become tradition, just like our love of vibrant music, great sports, and delicious food. Further, we, collectively, have become the gold standard for statewide STEM engagement and are a national leader in the field.

Heading into our 10th year, we've been reflecting on how all this started. In late 2009, we decided to try something new and launched the first ever statewide science celebration. Since then, there have been dramatic changes in the STEM landscape. Scientist outreach and engagement has exploded. Citizen science has expanded. On local and regional levels, people are delving into the work of cultivating learning ecosystems that engage people where they are in and out of formal learning experiences.

We're proud to have played a role alongside you in catalyzing these efforts and look forward to continuing our meaningful partnerships. Together, we're building something that doesn't exist anywhere else: a statewide network of engaged partners working to inspire each other and our audiences.

We can't wait for 2020 and look forward to building and creating with you.

Sincerely,

Todd Boyette

Todd Boyette
Director, Morehead Planetarium and
Science Center
Co-founder, North Carolina Science Festival

Jonathan M. Frederick

Jonathan Frederick
Director, North Carolina Science Festival
Senior Manager, Morehead Programs and
Strategic Partnerships



By the Numbers

A Banner Year for K-12 Engagement

PUBLIC EVENTS

118,122 | **362**
PARTICIPANTS | EVENTS

K-12

45,655 | **355**
PARTICIPANTS | EVENTS

YEAR-ROUND

8,188 | **71**
PARTICIPANTS | EVENTS

ON-AIR

284,568 | **12**
PARTICIPANTS | EVENTS

4,068

STEM Professionals

1:34

Ratio of STEM Professionals to Attendees



96
Counties



2,104

Miles Traveled by Kelvin



6

Trailers from Oak Ridge National Laboratory's Science Fair



456,533
TOTAL PARTICIPANTS
800
TOTAL EVENTS

Photos:

Top Right - UNCG Science Everywhere, photo courtesy of Jiyong Park

Science For All

Strengthening partnerships in meaningful ways



FESTIVAL PROGRAMS REACHED RURAL POPULATIONS

By prioritizing rural counties and schools, the Festival team engaged 246 schools in 93 counties across the state, including many schools impacted by Hurricane Florence.

The NC Science Festival team paid a special visit to College Park Elementary School in Wilmington, who hosted a Duke Energy Science Night a week into opening their new building after being displaced by the storm damage.

ENGAGING HISPANIC AND LATINX FAMILIES

This year, thanks to the support of the North Carolina GlaxoSmithKline Foundation, we were able to work with UNC Greensboro and our marketing partners to promote the UNC Greensboro Science Everywhere expo to Hispanic and Latinx audiences. As a result, the diversity among participants more closely reflected the population of the region.

Other events, like the Museum of Life and Science's *iCelebremos las ciencias!* allowed visitors from the greater Durham community to interact with scientists who speak Spanish and English.

Photos:
UNCG Science Everywhere, photo courtesy of Jiyoung Park



HONORING HEROES

Charlie Duke, one of 12 astronauts to walk on the Moon, and Mae Jemison, the first black woman to travel to space, visited North Carolina this spring thanks to support from the Burroughs Wellcome Fund and NC Space Grant.



MAKING STEM ACCESSIBLE

Events like ChangeMakers at UNC Wilmington provided opportunities for children with special needs to get hands-on with maker technology.

“

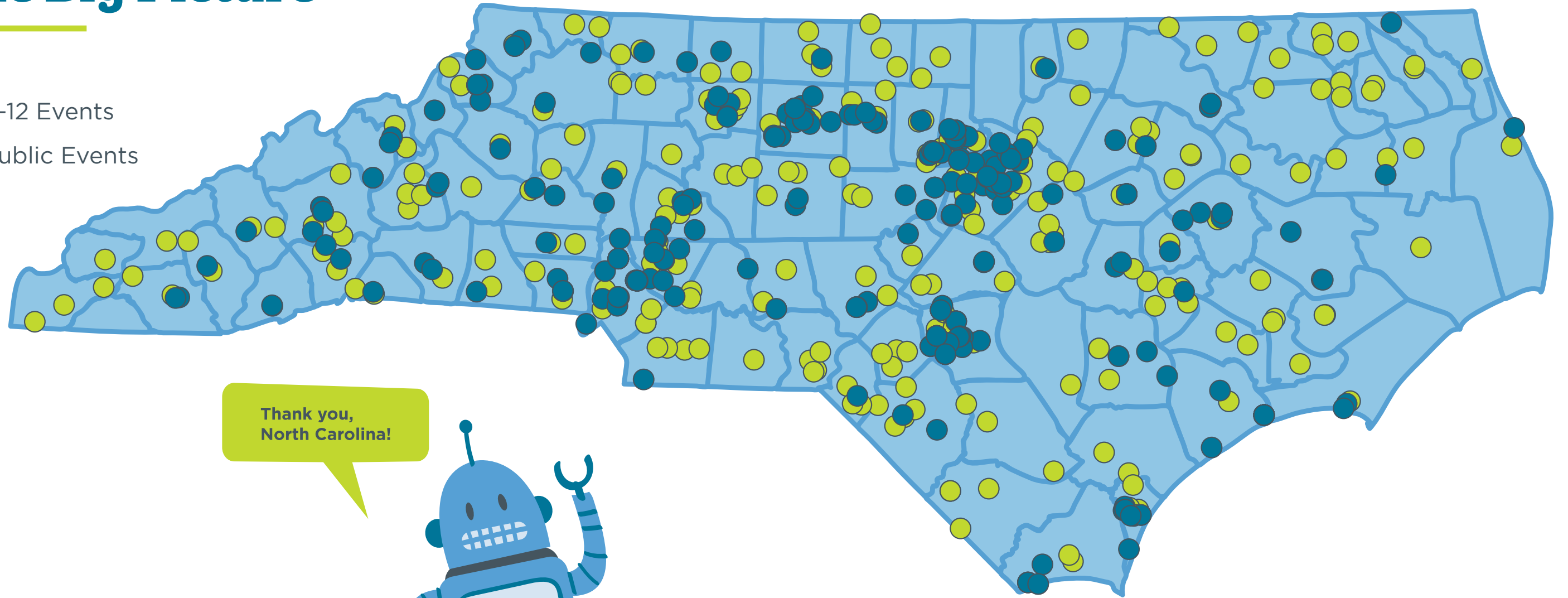
I really look forward to the event each year because it makes my heart shine! I cannot express to you how much it means to our community members with disabilities. They don't get this kind of opportunity. The kids shouted, 'Best day ever!' when they left.”

Dr. Amy Moody
UNCW



The Big Picture

- K-12 Events
- Public Events



**NC Gravity Games
with Google**
LENOIR

Photo: Will and Deni McIntyre



**Behind the Scenes
with LabCorp**
BURLINGTON



**Data on the Fly
with SAS**
RDU



**Statewide Star Party
with NC Space Grant**
WILMINGTON



Novozymes SciMatch
RALEIGH



**Duke Energy
Science Night**
CARTHAGE

Event Hosts

The North Carolina Science Festival would like to thank the following partners for their leadership in sharing STEM with their communities.



















-  Official Expo
-  Statewide Star Party
-  Kelvin's Choice
-  Novozymes SciMatch
-  Event Sponsorship
-  Festival Favorite
-  Signature Event
-  Adults Only
-  Duke Energy Science Night
-  UNC Challenge Grant


























Photo: Jiyoung Park









- A. C. Reynolds Middle School 
- AdVANCE Academy Middle School 
- Alamance Community College
- Alamance County Public Libraries
- Allenbrook Elementary School 
- Andrews Middle School 
- Apex Middle School 
- Appalachian State Academy at Middle School Fork 

- Appalachian State University:
- Dark Sky Observatory 
 - Department of Mathematical Sciences 
 - Department of Physics and Astronomy 
 - Mathematics and Science Education Center




- Arthur Edwards Elementary School 
- Ashe Schools of Home Education 

- Ashe Science Club 
- Asheboro Public Library 
- Asheville Makers  
- Asheville Museum of Science  
- Aulander Elementary School 
- Aurora Fossil Museum Foundation, Inc.
- Avery-Mitchell-Yancey Regional Library System 
- Bain Elementary School 
- Banks Elementary School 
- Barnardsville Elementary School 
- Beaufort County Community College
- Beaufort Elementary School 
- Ben Martin Elementary School 
- Benton Heights Elementary School of the Arts 
- Bethel K-8 School 
- Big Brothers Big Sisters of the Triangle
- BioNetwork 
- Blue Jay Point County Park
- Boiling Springs Elementary School
- Bolton Elementary School 
- Boomer-Ferguson Elementary School 
- Boonville Elementary School 
- Bowman Middle School  
- Braswell Memorial Library

- Brentwood Elementary School 
- Brown Education Initiative
- Bruce Drysdale Elementary School 
- Buckland Elementary School 
- Buncombe County Public Library System: Pack Memorial Library 
- Cabarrus County Parks
- Cabarrus County Public Library 
- Cabarrus County Schools  
- Cane Creek Middle School 
- Canterbury School
- Cape Fear Botanical Garden 
- Cape Fear Elementary School 
- Cape Fear Museum of History and Science   
- Carolina Raptor Center 
- Carthage Elementary School 
- Cartoogechaye Elementary School 
- Carvers Creek State Park
- Castle Hayne Elementary School 
- Catawba County Library: Conover Branch 
- Catawba Science Center 
- Cedar Creek Middle School  
- Central Elementary School 
- Central Middle School 

- Cerro Gordo Elementary School  
- Chapel Hill Public Library 
- Charles England Elementary School 
- Charlotte Hawkins Brown Museum 
- Chatham Community Library 
- Cherokee County Schools 
- Chimney Rock State Park
- Chowan Middle School 
- City of Lenoir
- City of Raleigh:
 - Durant Nature Preserve
 - Horseshoe Farm Nature Preserve
 - Parks, Recreation and Cultural Resources, Nature Program
 - Solid Waste Services
 - Walnut Creek Wetland Park

- Cliffdale Regional Library 
- Cloverleaf Elementary School 
- Coastal Land Trust 
- Colerain Elementary School 
- College Park Elementary School 
- Cowan Museum of History and Science 
- Creswell Elementary School 
- Cullowhee Valley School 

- Cumberland County Public Library & Information Center:
 - Bordeaux Branch 
 - East Regional Branch
 - Headquarters Branch
 - Hope Mills Branch
 - North Regional Branch
 - Spring Lake Branch
 - West Regional Branch 
- Cumberland County Schools: Go Green Initiative
- Davidson College 
- Davis-Townsend Elementary School 
- Discovery Place Kids - Huntersville
- Discovery Place Nature
- Discovery Place Science
- Dismal Swamp State Park 
- Dr. W. T. Griggs Elementary School 
- Dublin Primary School 
- Durham County Library 
- Durham Parks and Recreation 
- East Alexander Middle School 
- East Arcadia Primary School 
- East Carolina University: Biodiversity Initiative
- Eastern Wayne Elementary School 

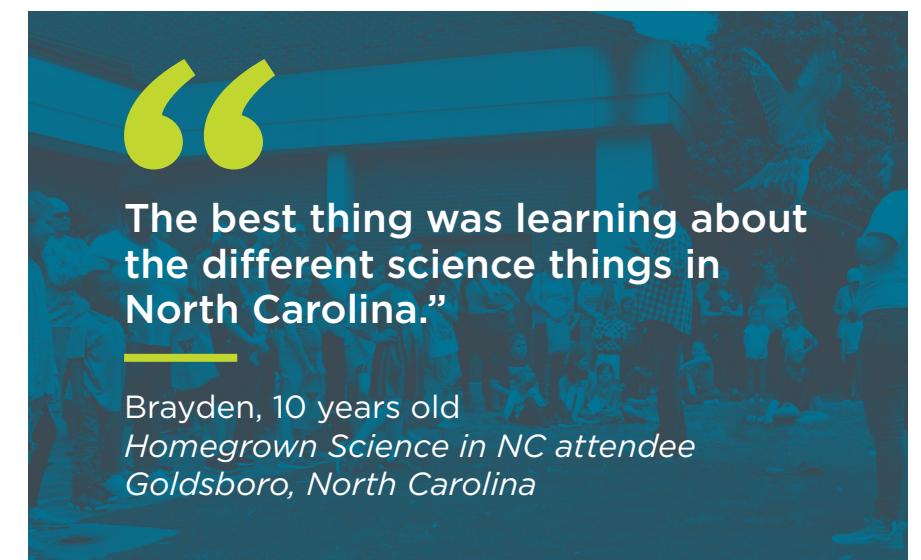


Eastfield Global Magnet School 🚗
 East Lincoln Middle School 🌟
 East McDowell Middle School 🌟
 East Rockingham Elementary School 🚗
 East Wake Academy Charter School 🌟
 Eastway Elementary School 🚗
 Elkin Middle School 🌟
 Elk Knob State Park
 Englewood Elementary School 🚗
 Envision Science Academy 🚗🌟
 Fair Grove Elementary School 🚗
 Fairview Heights Elementary School 🚗
 Farmville Public Library 🌟
 Fascinate-U Children's Museum 🌟
 First Impressions Academy 🌟
 FIRST North Carolina 🌐
 Fontana Regional Library: Macon County Public Library 🌟
 Forest Hill Elementary School 🚗
 Forrest W. Hunt Elementary School 🚗
 Forsyth County Public Library: Carver School Road Branch
 Fort Macon State Park 🌟
 Fred A. Anderson Elementary School 🚗
 Fuquay-Varina Middle School 🌟
 Gaston College 🌟
 Gaston County Public Library 🌟

Gaston Elementary School 🚗
 Gatesville Elementary School 🚗
 G. E. Massey Elementary School 🚗
 Githens Middle School 🌟
 Given Memorial Library and Tufts Archives 🌟
 Glade Creek Elementary School 🚗
 Glenn C. Marlow Elementary School 🚗
 Google 🌐🌟
 GRACE Christian School
 Graham High School
 Greene County Intermediate School 🚗
 Greene County Schools 🌐
 Greensboro Children's Museum & Edible Schoolyard
 Greensboro Science Center 🌟🌟🌟
 Guilford Technical Community College: Cline Observatory 🌟
 G. W. Carver Elementary School 🚗
 Hammocks Beach State Park 🌟
 Hanford Dole Elementary School 🚗
 Hanging Rock State Park 🌟
 Harnett County Public Library 🌟
 Harold Winkler Middle School 🌟
 Harris Creek Elementary School 🚗
 Harris Middle School 🚗
 Hawk Eye Elementary School 🚗
 Hawk Nest STEAM Academy 🚗

Haw River Elementary School 🚗
 Haywood County Public Library 🌟
 Hertford Grammar School 🚗
 Highland Middle School 🌟
 Hodge Road Elementary School 🚗
 Holly Ridge Middle School 🌟
 Hope Mills Public Library
 Horizons Unlimited
 Hunters Creek Elementary School 🚗
 Hurley Elementary School 🚗
 IC Imagine Public Charter School 🌟
 Imagination Station Science and History Museum 🌟🌟
 Innovation Academy at South Campus 🌟
 Iredell County Public Library
 Isothermal Community College 🌐🌟
 J. G. Edwards Elementary School 🚗
 Jamesville Elementary School 🚗
 Johnsonville Elementary School 🚗
 Johnston Community College
 Joint School of Nanoscience and Nanoengineering 🌐🌟
 Jones Middle School 🌟
 Jonesville Elementary School 🚗
 Junaluska Elementary School 🚗
 Kaleideum North 🌟
 Kannapolis Library

Kathleen Clay Library
 KidSenses Children's Museum
 Kidzu Children's Museum 🌟🌟
 Kimberley Park Elementary School 🚗
 Knollwood Elementary School 🚗
 Koontz Elementary School 🚗
 LabCorp 🌟
 La Grange Elementary School 🚗
 Lake James State Park 🌟
 Lake Norman State Park 🌟
 Lakewood Elementary School 🚗
 Laurel Hill Elementary School 🚗
 Laurel Mill Elementary School 🚗
 Leaksville Spray Elementary School 🚗
 Liberty Elementary School 🚗
 Lillian Black Elementary School 🚗
 Lincoln County Public Library
 Locust Elementary School 🚗
 London Elementary School 🚗
 Longview Elementary School 🚗
 M. B. Hubbard Elementary School 🚗
 Malpass Corner Elementary School 🚗
 Manchester Elementary School 🚗
 Manteo Elementary School 🚗
 Marbles Kids Museum
 Margaret Willis Elementary School 🚗
 Marshville Elementary School 🚗
 Martin GT Magnet Middle School 🌟
 Martin Millennium Academy 🚗🌟
 Mary Scroggs Elementary School 🚗
 Mattamuskeet Elementary School 🚗
 Matthews Charter Academy 🚗🌟
 Mayland Community College: Bare Dark Sky Observatory 🌟
 McDowell Nature Center 🌟
 Meadowbrook Elementary School 🚗
 Merrick Moore Elementary School 🚗
 Metrolina Regional Scholars Academy 🚗
 Middlesex Elementary School 🚗
 Mills Park Middle School 🌟
 Monroe Avenue Elementary School 🚗



Morehead Planetarium and Science Center 🌟🌟🌟
 Morrow Mountain State Park 🌟
 Moss Hill Elementary School 🚗
 Moss Street Partnership School 🚗
 Mountain Park Elementary School 🚗
 Mountain View Intermediate School
 Mount Mitchell State Park
 Mt. Gilead Elementary School 🚗
 Mt. Jefferson State Natural Area
 Museum of Life and Science 🌟🌟🌟
 Nags Head Woods Preserve 🌟
 Nantahala School 🚗
 NC A&T State University: College of Engineering 🌐🌟
 NC Central University: Science of African Americans Majors Evolving 🌐
 NC Department of Transportation
 NC Museum of History
 NC Museum of Natural Sciences 🌐
 NC Museum of Natural Sciences at Prairie Ridge Ecostation 🌟
 NC School of Science & Math 🌟
 NC Space Grant
 NC State University:
 • College of Sciences 🌟
 • Sustainability Office
 NC Wesleyan College-Teacher Education 🚗

Neal Middle School 🌟
 New Market Elementary School 🚗
 North Carolina Maritime Museum in Beaufort
 North Carolina Science Olympiad 🌟
 North Cove Elementary School 🚗
 North Elementary School 🚗
 North Graham Elementary School 🚗
 North Hills Elementary School 🚗
 North Rowan High School
 North Shelby School 🚗
 Northside Elementary School 🚗
 Northside High School: STEM Career Academy
 Northside K-8 School 🚗
 Northwest Elementary School 🚗
 Oak Lane Elementary School 🚗
 Oaks Road Academy 🚗
 Oakwood Elementary School 🚗
 Ocean Isle Museum Foundation at Ingram Planetarium 🌟🌟🌟
 Old Town Global Academy 🚗
 Onslow County Museum and Environmental Education Center 🌟
 Orange County Public Library 🌟
 Page Street Elementary School 🚗
 Pamlico County Primary 🚗
 Pathways Elementary School 🚗
 Pearsontown Elementary School 🚗



Pembroke Elementary School 🌿
 Perquimans Central School 🌿
 Perry Memorial Library ⭐
 Petree Elementary School 🌿
 Phoenix Academy 🌿
 Piedmont Environmental Center
 Piedmont Wildlife Center
 Pilot Mountain State Park ⭐
 Pines Elementary School 🌿
 Plain View Primary School 🌿
 Pleasant Gardens Elementary School 🌿
 Pleasant Grove Elementary School 🌿
 Polk County Public Library ⭐
 Pollockville Elementary School 🌿
 Poplar Springs Elementary School 🌿
 PreEminent Charter School ✨
 Princeville Elementary School 🌿
 Professor Brian Cox 🌿
 P. W. Moore Elementary School 🌿
 Queen Anne's Revenge Conservation Lab ❤️
 R. Brown McAllister STEM Elementary School 💰❤️
 Rachel Freeman Elementary School 🌿
 Randleman Middle School ✨
 Randolph Community College
 Ranger Elem/Middle School 🌿
 R. B. Dean Elementary School 🌿
 Reconnect 2 Nature
 Red Springs Middle School ✨
 Reedy Creek Magnet Middle School Center for the Digital Sciences ✨
 Reidsville Middle School ✨
 Ridgcroft School 🌿
 River Park North
 Riverwood Middle School ✨
 Robbinsville High School 🌿
 Robeson Planetarium and Science Center ⭐
 Rockingham County Middle School ✨
 Rocky River Elementary School 🌿
 Roland Grise Middle School ✨

Rose Hill-Magnolia Elementary School 🌿
 Rosman Elementary School 🌿
 Rowan-Cabarrus Community College
 Rowan Public Library:
 • East Branch
 • Headquarters Branch
 • South Rowan Regional Branch ⭐
 RTI International
 Saluda Elementary School 🌿
 Sandhills Community College
 SAS
 Science Communicators of North Carolina ❤️
 Scurlock Elementary School 🌿
 Sheep-Harney Elementary School 🌿
 Siler City Elementary School 🌿
 Smokey Mountain Elementary School 🌿
 South Creek Elementary School 🌿
 South Edgecombe Middle School ✨
 South Elementary School (Mebane) 🌿
 South Elementary School (Roxboro) 🌿
 South Greenville Elementary School 🌿
 South Scotland Elementary School 🌿
 South Smithfield Elementary School 🌿
 Southwood Elementary School 🌿
 Sparta Elementary School 🌿

Stanfield Elementary School 🌿
 STEM in the Park 🌿💰
 Stone Mountain State Park
 St. Thomas More Catholic School ✨
 Sunnyside Elementary School 🌿
 Supply Elementary School 🌿
 Surry Community College: Science Division 💰❤️
 Swain County Schools 🌿
 S. W. Snowden Elementary School 🌿
 Sycamore Lane Elementary School 🌿
 Sylvan Heights Bird Park 💰
 T. S. Cooper Elementary School 🌿
 Tabor City Elementary School 🌿
 Tectonic Plates: Alamance County's Science Cafe
 The Carolinas Aviation Museum 💰❤️
 The Children's Museum of Wilmington 💰
 The Children's Playhouse 💰🌿
 The Expedition School ✨
 The Neuseway Nature Park: Ellis Planetarium
 The North Carolina Arboretum 🌿
 The Schiele Museum of Natural History ⭐
 Town Creek Indian Mound State Historic Site ⭐
 Town of Chapel Hill

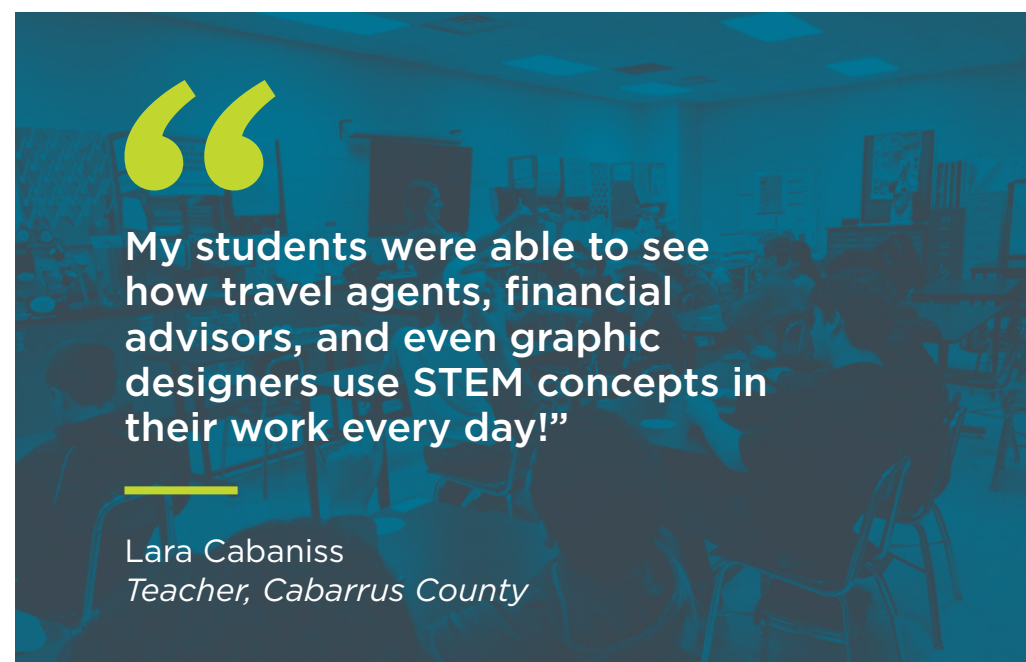


Photo: Jiyoung Park

Town of Garner ⭐
 Town of Nashville Parks and Recreation, and Cultural Resources Department ⭐
 Trent Park Elementary School 🌿
 Tryon Elementary School (Bessemer City) 🌿
 Tryon Elementary School(Tryon) 🌿
 Tyrrell Elementary School 🌿
 UNC-TV
 UNC Asheville ⭐
 UNC Charlotte 🌿🌿🌿🌿🌿
 UNC Greensboro 🌿🌿
 UNC Pembroke ❤️
 UNC Wilmington 🌿❤️
 Union Chapel Elementary School 🌿
 Union County Community Services
 Union Elementary School (Clinton) 🌿
 Union Elementary School (Rowland) 🌿
 Union Elementary School (Shelby) 🌿
 Upchurch Elementary School 🌿
 US Army Corps of Engineers ⭐
 US Environmental Protection Agency ❤️🌿
 Uwharrie Ridge 6-12 ✨
 Valle Crucis School ✨

Valmead Elementary School 🌿
 Vanceboro Farm Life Elementary School 🌿
 Vass-Lakeview Elementary School 🌿
 Vinson-Bynum Elementary School 🌿
 Virginia Cross Elementary School 🌿
 Virginia Williamson Elementary School 🌿
 Wadesboro Primary School 🌿
 Wake County Solid Waste Management Division
 Wake County Parks, Recreation and Open Space: Harris Lake County Park and the American Tobacco Trail ⭐
 Waldo Falkener Elementary School 🌿
 Walkertown Elementary School 🌿
 Warrenwood Elementary School 🌿
 Warsaw Elementary School 🌿✨
 Washington Street Elementary School 🌿
 Wayne Avenue Elementary School 🌿
 Wayne Community College 💰
 Wayne County Public Library
 Westarea Elementary School 🌿
 Western Alamance Middle School ✨
 Western Carolina University ⭐
 Western Piedmont Council of Governments: STEM West 🌿💰
 West Hoke Elementary School 🌿

West Marion Elementary School 🌿
 West Smithfield Elementary School 🌿
 W. G. Pearson Elementary School 🌿
 White Oak Elementary School 🌿
 Whiteville Primary School 🌿
 Wiley Magnet Middle ✨
 Wilkerson Nature Preserve ⭐
 William R. Davie Elementary School 🌿
 Willis Hare Elementary School 🌿
 Wilson's Mills Elementary School 🌿
 Winecoff STEM Elementary School 🌿
 Wingate Elementary School 🌿
 Winston-Salem State University 🌿❤️
 Winter Park Elementary School 🌿
 Wittenburg Elementary School 🌿
 York Elementary School 🌿



“
 My students were able to see how travel agents, financial advisors, and even graphic designers use STEM concepts in their work every day!”

Lara Cabaniss
 Teacher, Cabarrus County



SCIENCE FOR ALL

..... APRIL 2019

The North Carolina Science Festival
is made possible by the generous
support of its sponsors.

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DIAMOND CHAMPION



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