



## Educators' Guide 2025-2026



Featuring programs correlated to the  
**North Carolina Standard Course of Study**  
and  
**North Carolina Foundations for  
Early Learning and  
Development**



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120 West 3rd Street  
Winston-Salem, NC 27101

**Welcome Desk: (336) 767-6730**

**To book a field trip to Kaleideum:**

Email [scheduling@kaleideum.org](mailto:scheduling@kaleideum.org)

or visit

[kaleideum.org/school-field-trip-form](http://kaleideum.org/school-field-trip-form)

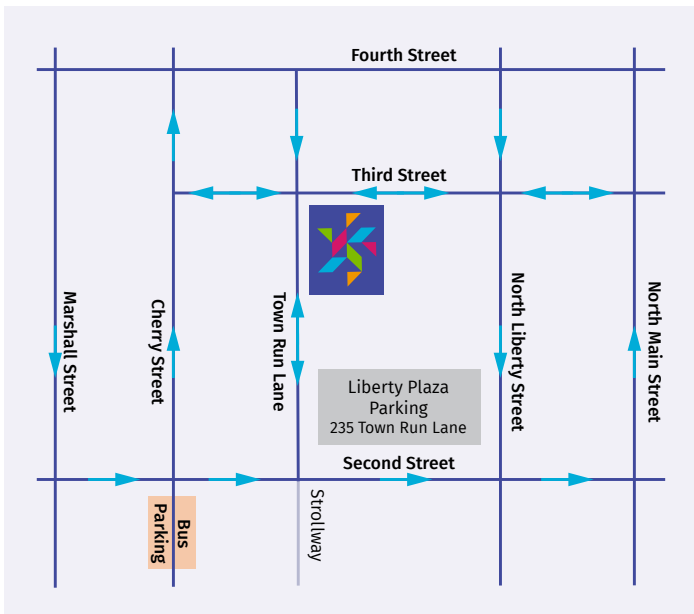




# GENERAL INFORMATION

## Location and Parking

Kaleideum is located at 120 West 3rd Street, Winston Salem, NC 27101. Parking is available in the Liberty Plaza parking deck located behind the museum on Town Run Lane. Bus parking is available off-site on Cherry Street.



## Kaleideum Hours

### SCHOOL YEAR

(Labor Day-Memorial Day)

Monday .....	<b>Members Only</b> 9 am-Noon
Tuesday-Friday .....	9 am-5 pm
Saturday-Sunday .....	10 am-5 pm

*Kaleideum is closed on specific holidays throughout the year. Please visit [kaleideum.org](http://kaleideum.org) for the most up-to-date information.*

## School Group Admission\*

(per person)

Winston-Salem/Forsyth County

School System Students .....	Free
All other Forsyth County Students .....	\$8
Preschool Students .....	\$8
Out-of-County School Students .....	\$10
Teachers .....	Free
Adult Monitors** .....	Free
Bus Drivers .....	Free

*\*\*One free adult monitor per 10 students.*

**Adult monitors must be included in the initial reservation.** Additional parents and family members are welcome to visit the museum but will be required to pay full price and are not allowed into the group's scheduled educational programs or Digital Dome shows. Please indicate when confirming your reservation.

## Education Program Fees\*

(per person)

PreK-12th Grade Programs .....	\$7
Digital Dome Programs .....	\$7
Musical Laser Shows .....	\$4
Winston-Salem/Forsyth County	
Title I Schools .....	One free program per group per year

## Non-School Groups of 10 or More Admission\*

(per person)

*To ensure you receive this rate, please pre-register your group.*

Youth and Adults .....	\$8
11 months and under .....	Free
Bus Drivers .....	Free

*\*NC sales tax included.  
Program fees are not taxed.*



# PLANNING YOUR VISIT

## Reservations

Please make reservations at least **two weeks prior** to the requested date in order to ensure a greater number of program choices.

### To book a field trip to Kaleideum:

Please visit [kaleideum.org/field-trips](http://kaleideum.org/field-trips) to fill out and submit the online **School Year Field Trip Registration Form**. You will be contacted when your Registration Form is received.

If you have questions, please email [scheduling@kaleideum.org](mailto:scheduling@kaleideum.org) or call **(336) 767-6730**.

To assist with planning, Forsyth County educators are invited to visit Kaleideum **free of charge** with their valid teacher ID.

**Important!** Your field trip or group visit to Kaleideum is **not confirmed until you receive a confirmation letter**. Please bring the confirmation letter with you to present at the Welcome Desk on the day of your visit. **If you do not receive your letter within two weeks of booking your visit, please email [scheduling@kaleideum.org](mailto:scheduling@kaleideum.org).**

## Cancellations or Late Arrivals

Kaleideum strives to be flexible and accommodate changes in schedule; however, we appreciate as much advance notice as possible.

- If your group must cancel or reschedule your visit to Kaleideum, please call the Welcome Desk as soon as possible and provide at least 24 hours' notice in order to avoid a possible \$50 cancellation fee.
- If your group will not be arriving by your scheduled time, please call the Welcome Desk at (336) 767-6730.

A late arrival could result in shortened or cancelled programs with no refund. Late entry to a Digital Dome program in progress is prohibited.



## Dining

You are welcome to bring bag lunches!

- All attempts will be made to schedule your lunch time prior to your arrival.
- We ask that you adhere to the lunch schedule so that we can accommodate all groups.
- Kaleideum is convenient to many restaurants. Please inform the Welcome Desk at check-in if you are planning to have lunch delivered.

## Fractals Gift Shop

Fractals Gift Shop features a wide array of fun and educational items to fit every budget and enhance your experience.

- Pre-packaged gift bags, a convenient way to save time and money, are available for \$3 each and contain a sampling of our most popular items. **Please request gift bags when you schedule your field trip.**
- For the convenience of all guests, we ask that the Welcome Desk be notified if your group wishes to visit the gift shop. We ask that only **five students** visit at a time, and they must be accompanied by an adult monitor.
- **Teachers receive a 10 percent discount on Fractals Gift Shop items.**



## Accessibility Information

Kaleideum is committed to creating and sustaining a diverse, equitable, accessible, and inclusive learning environment. Kaleideum can accommodate a variety of accessibility needs.

- Seating is available throughout the museum.
- Elevators are conveniently located.
- All permanent signage is in English and Spanish.
- Wheelchairs are available. Please ask at the Welcome Desk.
- Large restrooms and family restrooms are located on each floor.
- Sensory-friendly wellness rooms are located on all floors.
- All restrooms have changing tables, and there is a motorized adult changing table in the family restroom on the fourth floor.
- Sensory-friendly backpacks and visual schedules can be requested at the Welcome Desk.
- **PLEASE NOTE:** Digital Dome shows contain strobe lighting and visual effects that could cause seizures.



## Tips for a Great Visit!

- We recommend allowing at least two hours to explore.
- Learning Lab programs are approximately 30-45 minutes long.
- Students must be monitored at all times.
- Food and drinks are allowed only in designated areas.
- Please don't tap on aquariums or enclosures.
- **Scavenger hunts are available for free download on our website.**





# PreK-Kindergarten | Learning Lab Programs

Learning Lab Programs are hands-on, interactive explorations for individual classes of up to 25 students.

## Shapes in Motion:

### A Geometric & Literature Adventure

What happens when a triangle dreams of having more than just three sides and corners? In this fun-filled story time program, we'll explore familiar shapes and uncover exciting new ones. We'll practice counting and sequencing, then get hands-on by creating shapes with stepping stones and ropes. To wrap up, each child will craft their own geometric masterpiece to take home!

**North Carolina Foundations for Early Learning and**

**Development — LDC-1,2; CD-5; APL-1,4,5,8,9**

**North Carolina Standard Course of Study — Math K.G.1; K.G.2; K.G.3; K.G.5.a**

## Shake, Rattle & Roar:

### A Sound Adventure!

Get ready to shake, rattle, groove and roar to the beat as we dive into the rhythmic tale *Saturday Night at the Dinosaur Stomp*. We'll become little musicians as we tap, jingle and experiment with instruments to feel the magic of sound vibrations. Each child will make an instrument to take home and keep the music going.

**North Carolina Foundations for Early Learning and**

**Development — LDC-1,2; CD-5; APL-1,4,5,8,9**

**North Carolina Standard Course of Study — ELA-RL.K.1; RL.K.3; RL.K.7**

## Science & Stories:

### A Turtle-y Fun Adventure

Join us for a literary and science adventure! Meet two of our live animal ambassadors and explore the differences between turtles and tortoises. Share facts about the critters and



compare and contrast real and make-believe literature! Wrap up your lesson by creating a cool turtle craft.

**North Carolina Foundations for Early Learning and**

**Development — LDC-8-LDC-10; APL-1; APL-2; APL-5; APL-8**

**North Carolina Standard Course of Study — Science LS.K.1 & LS.K.2; ELA-RL.K.1; RL.K.3; RI.K.5; RI.K.7; RI.K.9;**

## Scales, Feathers & Furs — Oh My!

In this creative animal-filled journey, meet some of our live animal friends and explore how they grow, move, find food & stay safe. Discover the difference between nonliving and living things, by pretending to hatch an egg, examining animal pelts and sorting animals by their characteristics.



**North Carolina Foundations for Early Learning and**

**Development — APL-1; APL-2; ESD-5; LDC-2; LDC-3; CD-14; CD-15**

**North Carolina Standard Course of Study — Science: LS.K.1; LS.K.2**

## Tiny Meteorologists

What will the weather be like today? Explore the four seasons and learn about observable weather patterns that occur daily and throughout the year! Imitate a rainstorm, watch a swirling tornado in a bottle and create a beautiful rainbow craft as we move through fun-filled centers!

**North Carolina Foundations for Early Learning and**

**Development — APL-1; APL-2; APL-5; APL-8; LDC-1-LDC-4; CD-15**

**North Carolina Standard Course of Study — Science: ESS.K.1**

*See page 9 for Geology at Work, an off-site program for grades K-6+.*

*See page 13 for Kaleideum To You programs for ages 2-5.*

# 1st-2nd Grade | Learning Lab Programs

Learning Lab Programs are hands-on, interactive explorations for individual classes of up to 25 students.

## Shape Shifter Adventures:

### *A Trip About Geometry!*

Get ready for a *shape-tacular* adventure! Join us as we read the story of an equilateral triangle who loves to change shapes — transforming into different quadrilaterals and polygons of all sizes! As we follow along, we'll create the shapes from the story using stepping stones and ropes. Along the way, we'll explore geometric vocabulary and learn all about sides, corners, and angles. Finally, students will create their own geometric designs.

**NC Standard Course of Study — Math 1.G.1; 1.G.2; 2.G.1;  
Literature RL.1.1; RL.1.3; RL.1.4; RL.1.7; RL.2.1; RL.2.3; RL.2.7**

## Sound Spectacular

Let your class put their “good vibrations” to use! Join us for a fun-filled adventure with sound! Make sounds using traditional instruments and natural objects, create musical instruments to take home and discover more about sound waves, the inner ear, and the ways in which we hear.

**North Carolina Standard Course of Study — Science PS.2.2**

## Tails vs. Tales:

### *Explore Literature Through Science*

Literature and Science collide at Kaleideum! Embark on an adventure that blends literature and science standards! Explore the differences between fiction and nonfiction animal texts comparing story elements like plot and characters with real-life facts and photos. Encounter our live reptile animal ambassadors that will connect the books to the amazing world of science! Engage in some hands-on science fun!

**North Carolina Standard Course of Study — Science LS.1.1; LS.2.1; ELA; RL.1.1; RL.1.3; RL.1.5; RI.1.1; RI.1.7; RI.1.9; RL.2.1; RI.2.5; RI.2.6; RI.2.7**

## Fur, Feathers & Scales:

### *Animal Detectives in Action*

In this exciting hands-on adventure, meet some of our amazing animal ambassadors and investigate what makes them unique! Explore the differences between animals with fur, feathers, and scales and become an animal detective by pretending to hatch an egg and examining animal pelts. Finally, decipher and examine the life cycles of some familiar animals.

**North Carolina Standard Course of Study — Science LS.1.1.1; LS.1.1.2; LS.2.1.1, LS.2.1.2**

## Junior Meteorologists

Get weather-wise in this exciting hands-on weather adventure! Investigate weather patterns, explore daily and seasonal weather changes and learn how meteorologists use weather-measuring instruments and vocabulary to predict and convey our forecast.

**North Carolina Standard Course of Study — Science ESS.2.1; ESS.4.1**



## What's the Matter?

Solids, liquids, and gases will be easy to identify after this exciting program! Take part in various station activities and learn the characteristics and reasons for changes in states of matter. Vocabulary and observational skills will be used as we melt, sort and mix our way through the states of matter.

**North Carolina Standard Course of Study — Science PS.2.1**

## Magnetic Marvels

Explore magnets and magnetic fields in this engaging hands-on program. A variety of station activities will allow students to examine properties of magnets and their ability to move objects without touching them.

**North Carolina Standard Course of Study — Science PS.1.1**

*See page 9 for Geology at Work, an off-site program for grades K-6+.*

# 3rd-5th Grade | Learning Lab Programs

Learning Lab Programs are hands-on, interactive explorations for individual classes of up to 25 students.

## Motion Commotion

Get ready to investigate motion in this fast-paced, hands-on lesson. Explore how objects move, change speed, and change direction using ramps, obstacles, and gravity-defying drops. From rolling races to gravity tests, get ready to discover what sets everything in motion!

**North Carolina Standard Course of Study — PS.3.2; PS.5.2**

## Electricity and Magnetism Unleashed

Interactive demonstrations will highlight electricity and magnetism as two types of energy. Explore the difference between static and current electricity with a Van Der Graff generator, experiment with magnets to produce motion, and engineer circuits to power a variety of motors and lights.

**North Carolina Standard Course of Study — PS.4.1; PS.5.2**

## Matter Mix-Up

Get exposed to matter by exploring the differences between physical and chemical changes! Sharpen your observation skills and practice lab safety while testing physical and chemical reactions to create fizzing, bubbling, and colorful concoctions.

**North Carolina Standard Course of Study — Science: PS.3.1; PS.5.1**



*See page 9 for Geology at Work, an off-site program for grades K-6+.*

# 6th-8th Grade | Learning Lab Programs

Learning Lab Programs are hands-on, interactive explorations for individual classes of up to 25 students.

## Force in Action: The Catapult Challenge

Team up and put your physics skills to the test! Using PVC pipes and rubber bands, you'll build your own catapult, tweak angles and tension, and compete to see whose projectile goes the farthest. Who will master motion and force to launch their way to victory? After the competition, explore our In Motion exhibit and identify various simple machines in a real-world context.

**North Carolina Standard Course of Study — PS.7.1; PS.7.2.4**



## Chemistry Chaos

Get ready to stir up some science! Dive into the exciting world of chemistry as you explore the signs of chemical reactions through hands-on experiments. Mix, measure and observe as you discover the difference between physical and chemical changes. Learn how matter is organized into elements, compounds, and mixtures. It's messy, it's fun, and it's full of surprising reactions.

**North Carolina Standard Course of Study — PS.6.1; PS.8.1**

*See page 9 for off-site programs  
H2Know: Testing Nature's Waters and Geology at Work.*



# Off-Site Programs

## H2Know: Testing Nature's Waters

### Grade 8

Explore Gateway Nature Preserve like environmental scientists! Collect water samples and test for pH, temperature, dissolved oxygen, and more to uncover the health of the ecosystem. Can you predict if the water there is safe? Use nets to collect aquatic macroinvertebrates to help you make a more informed decision. Let science help you decide!

This program takes place at Gateway Nature Preserve. Please be advised that participants will walk to the stream site, so appropriate attire and footwear are recommended. If your group has any accessibility needs, we kindly ask that you inform us in advance so we can make the necessary accommodations. **Groups are also welcome to visit Kaleideum on the same day as their program.**

North Carolina Standard Course of Study — ESS.8.3



## Geology at Work

### Grades K-6+

**Experience geology in action at Vulcan Materials Company's working quarry!** Led by Kaleideum educators, view the quarry up close, and learn about the products mined here and the uses of these materials in everyday life. The Joseph A. Gutierrez Geology and Earth Science Museum at Vulcan also houses an ample collection of gems and minerals, so students can dig deeper into the basic components of Earth's building blocks.

This program is fully sponsored by Vulcan Materials Company. **Groups are encouraged to visit Kaleideum free of charge on the same day as their Geology at Work program.**

North Carolina Standard Course of Study — Science: ESS.1.2; ESS.1.3; ESS.4.2; ESS.6.2



# Digital Dome Programs

Experience the wonders of our advanced Digital Dome! Imagine a giant, futuristic screen that takes you on voyages through space, climate, nature, and the oceans. In our Planetarium, we showcase fascinating shows about the mysteries of the cosmos and the beauty of our planet. Zoom in on planets, explore the secrets of distant stars, and journey through Earth's diverse landscapes—all from where you sit! Join us for an unforgettable adventure into space and our amazing world! **Digital Dome seating is limited. Programs for school groups only include students, teachers and monitors.**

***Laser shows are not recommended for individuals who are photo-sensitive or motion sensitive.***

Groups with fewer than 15, please email [scheduling@kaleideum.org](mailto:scheduling@kaleideum.org).

Dome program will be scheduled for 45-minute blocks. Actual program time varies but is roughly 25 minutes with 20 minutes for Q&A, upon request.

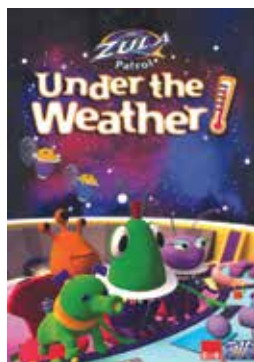
## Zula Patrol

**Grades PreK-2**

**25-minute movie program**

When weather is stolen from the planets in our solar system, the Zula Patrol comes to the rescue! Learn about weather processes not only on Earth but on other planets in our solar system with this lovable gang of aliens called the Zula Patrol. This movie covers the basics of weather on Earth and compares it with weather on other planets in our solar system.

**North Carolina Standard Course of Study — Science: ESS.K.1; ESS.1.1; ESS.2.1**



## Hazelnuts

**Grades PreK-3**

**25-minute movie program**

Join Nino and Lilli, two squirrels searching for the greatest hazelnuts in the universe! As they attempt to reach other planets, they'll learn about what makes Earth special. This program will cover the conditions for life on Earth, the formation of the Earth, and the habitability of other planets.

**North Carolina Standard Course of Study — Science: ESS.K.1; ESS.1.1; ESS.2.1; ESS.3.1**



## Earth, Moon & Sun

**Grades K-1**

**25-minute live lecture**

Explore the relationship between the Earth, Moon, and Sun within our solar system. Examine the Earth from the International Space Station, learn how gravity keeps us on Earth, how the Sun keeps us alive, and how everything moves together in this educational program for the young astronomers.

**North Carolina Standard Course of Study — Science: ESS.K.1; ESS.1.1**



## One World, One Sky

**Grades PreK-2**

**25-minute movie program**

This show follows Sesame Street's Big Bird and Elmo as they explore the night sky with Hu Hu Zhu, a Muppet from Zhima Jie, the Chinese co-production of Sesame Street. Together, they take an imaginary trip from Sesame Street to the Moon, where they discover how different it is from Earth. Children attending the show can interact as they watch, drawing constellations and counting the time it takes for the sun to set.

**North Carolina Standard Course of Study — Science: ESS.K.1; ESS.1.1; ESS.2.1**



## Cosmic Adventure

**Grades K-5**

**25-minute movie program**

This show for families takes us on a roller coaster ride from the Moon through the universe, our galaxy, and our Solar System. This unforgettable high-speed adventure will immerse you in some of the most amazing sites in the universe.

**North Carolina Standard Course of Study — Science: ESS.1.1; ESS.3.1**

## Solar System Tour

**Grades 1-6**

**25-minute live lecture**

Take the grand tour of our solar system! From the Sun and planets to moons, dwarf planets, and more. Our Digital Dome educator will take you on a trip through space.

**North Carolina Standard Course of Study — Science: ESS.1.1; ESS.3.1; PS.3.2; ESS.4.1; ESS.6.1; EEN.1.1**

## Universe

**Grades 3+**

**25-minute movie program**

A historical look at how we have envisioned the universe through the ages. We visit some of the ancient sites where our ancestors erected great structures with special astronomical significance. Students will look at the universe through the eyes of today's scientists and space explorers to experience a spectacular overview of the heavens. Telly Award finalist.

**North Carolina Standard Course of Study — Science: ESS.3.1; ESS.6.1; EEN.1.1**

**Cross-curricular Program: Science & History**

## Carolina Skies

**Grades 3+**

**25-minute live lecture**

This live, interactive program explores the stars and constellations visible in North Carolina's night sky throughout the year.

**North Carolina Standard Course of Study — Science: ESS.3.1; ESS.4.1; ESS.6.1**

## Oasis in Space

**Grades 4-12**

**25-minute movie program**

Travel through the universe in search of one of the most important ingredients for life on Earth: liquid water.

**North Carolina Standard Course of Study — Science: ESS.6.1; EEN.1.1; ESS.8.3.2**

## Expedition Reef

**Grades 5+**

**25-minute movie program**

Learn the secrets of the “rainforests of the sea” as you embark on an oceanic safari of the world's most vibrant — and endangered — marine ecosystems. Discover how corals support more than 25 percent of all marine life on Earth while facing unprecedented threats from climate change, habitat destruction, and overfishing.

**North Carolina Standard Course of Study — Science: LS.5.2; LS.6.2; LS.8.2**



## Microcosm

**Grades 5+**

**20-minute movie program**

At the Center of Miniaturized Medicine in the year 2053, you'll shrink down to the size of a microbe and get injected into a patient who is suffering from a mysterious viral infection. As you piece together the clues found along the way, you'll race against time to save the patient on a wild ride through the body.

**North Carolina Standard Course of Study — Science: LS.5.1; LS.7.1.4**

## All About the Cosmos

**Grades 5+**

**25-minute live lecture**

Explore the solar system, black holes, dark matter, and energy as we journey through the cosmos.

**North Carolina Standard Course of Study — Science, History: PS.5.2.1; ESS.6.1; History: 6.H.2.3**

## Mars: The Ultimate Voyage

**Grades 6+**

**25-minute movie program**

Take a journey to the Red Planet. What does it take to make it to Mars? In this new production, we'll discover the many challenges astronauts will face and how creativity, communication, and collaboration are essential for deep space exploration.

**North Carolina Standard Course of Study — 5.P.1.3; 5.E.1.1; 5.E.1.2; 5.P.2.3; 6.E.1; 8.P.2.1**

**See page 12 for  
Digital Dome Laser Shows ➔**



# Lasers! Lasers! Lasers!



Experience an immersive adventure with Kaleideum's laser light system.

***Laser programs are not recommended for those with epilepsy, flicker vertigo, or other motion or light sensitivities.***

## The Great Space Chase

***All Ages***

***25-minute laser movie***

"It's an Intergalactic, Virtual-Reality Accelerator Suit. And it's been stolen!" Join Lt. Photeus as he tracks the sinister Captain Xenon through the Solar System. *The Great Space Chase* is a detective mystery that uses laser animations to teach about the solar system and the universe beyond. \$7 per person.

## Musical Laser Show

***All Ages***

***14-minute laser show***

A fun laser show can be booked for \$4 per person. Laser Shows include Jurassic Park, Powerhouse, Yellow Submarine, Cotton Eyed Joe, and Ghostbusters.

## A Brief Mystery of Time

***Grades 3+***

***25-minute laser movie***

A humorous program about the science, history and our cultural perceptions of time. Astronomical topics include black holes, worm holes, the speed of light and the possibilities of time travel. \$7 per person.



# Kaleideum To You!

## Book a STEMtastic Night at Your School!

Schedule us for an evening of exploration and discovery hosted at your school! Get ready to immerse your students and their families' brand-new hands-on activities designed to ignite curiosity and spark a love for the STEM subjects. With three to four Kaleideum employees leading the way, your group will have the opportunity to explore up to seven interactive centers bursting with science, technology, engineering and math activities. From building challenges to exploring static electricity, there will be something for every budding scientist, engineer, and mathematician to enjoy. To book a STEM night please email [scheduling@kaleideum.org](mailto:scheduling@kaleideum.org).

**Cost: \$450/\$350 for Title 1 Schools.** If outside of Forsyth County or greater than 35 miles roundtrip a \$1/mile travel fee will be added to the total cost.

## Kaleideum To You! Preschool Edition

### Program options for ages 2-5 years

Let us bring the magic of Kaleideum into your preschool classroom! Museum educators engage your students in active learning through play, as we explore, investigate, and practice new skills together. Our STEAM-based lessons (*Science, Technology, Engineering, Arts, Math*) use the NC Foundations for Early Learning and Development to support early childhood learning domains and spark curiosity and foster a love of lifelong learning in the youngest of children.

You can also bring **Kaleideum To You!** experiences to your school community with a family outreach event hosted by your school! Families explore and play together with hands-on activities and problem-solving challenges led by our museum educators for all ages to enjoy.

**Cost: \$150.** If outside Forsyth County or greater than 35 miles roundtrip a \$1/mile travel fee will be added to the total cost.

### Engineer It!

Transform into a mini engineer as we explore and solve problems using robots, dominoes, and musical circuits! Using the engineering design process, we'll ask questions, brainstorm together, and test and improve our own creations.

**North Carolina Foundations for Early Learning and Development**  
— APL-1; APL-4; APL-5; APL-6; APL-8; APL-9; ESD-5; HPD-5; LDC-1; LDC-2; LDC-3; LDC-7; CD-2; CD-3; CD-10; CD-13; CD-15

### Science & Stories:

#### A Turtle-y Fun Adventure

Join us for a literary and science adventure! Meet two of our live animal ambassadors and explore the differences between turtles and tortoises. Share facts about the critters and compare and contrast real and make-believe literature! Wrap up your lesson by creating a cool turtle craft.

**North Carolina Foundations for Early Learning and Development**  
— LDC-8-LDC-10; APL-1; APL-2; APL-5; APL-8

**North Carolina Standard Course of Study — Science LS.K.1 & LS.K.2; ELA-RL.K.1; RL.K.3; RI.K.5; RI.K.7; RI.K.9;**



### Scales, Feathers & Furs — Oh My!

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**North Carolina Foundations for Early Learning and Development**  
— APL-1; APL-2; APL-5; APL-8; LDC-1-LDC-4; CD-15  
**North Carolina Standard Course of Study — Science: ESS.K.1**

# Homeschool Programs

## Homeschool Innovators: *Robotics and Engineering*

**October 8, 2025, 9 am-5 pm**

Get ready to design, build, and innovate! During this special Homeschool Day, students will explore the exciting worlds of robotics and engineering through hands-on challenges and interactive activities. Dive into the engineering design process as you construct simple machines, experiment with circuits, and explore how robots sense and move. Then, put your creativity to the test by programming robots to complete tasks and solve real-world problems.

Whether your learner is just beginning their engineering journey or already dreaming of a career in robotics, this day will spark curiosity, build problem-solving skills, and inspire future innovators.

## Homeschool Neuroscience Day:

***Brain Power with Wake Forest University Brain Awareness Council***

**March 14, 2026, 9 am-5 pm**

Explore the amazing power of the human brain! During this special Homeschool Day, students will dive into the world of neuroscience to learn how our brains control everything we think, feel, and do.

Investigate how neurons communicate, test your senses with hands-on challenges, and discover how different parts of the brain work together to help you move, learn, and remember. Students will leave with a greater understanding of how their brains keep them alive, learning, and growing every day.



**WAKE FOREST**  
UNIVERSITY

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**Kaleideum's 2025-2026 Educators' Guide is supported by**



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# Exhibits at Kaleideum



**Students can also enjoy these exhibits at Kaleideum during their visit:**

## By Design

Construct a building, craft pottery, model furniture, code a dance routine, or design a tattoo. Dream about how you will leave your mark on our city, county, and beyond!

## In Motion

Engineer a roller coaster, explore kinetic movement in motion capture labs, build a race car, or ride a bike to generate electricity. Get energized by learning about the physics behind the way things move.

## Our Nature

Zoom in on bird feathers or reptile scales, explore time-lapse videos of natural processes, and pretend you're a wildlife veterinarian. Investigate the constant change and surprising connections among life on Earth.

## Wonders of Water

Experience water in all its wonderful forms by controlling a waterfall, sculpting an ice block, and playing with light in a tunnel of fog. Color your own fish and make it swim in a digital aquarium, see live fish, and paint with water on a slate wall. The water is recycled and treated, so this is one place where it's OK to let the water flow!

## Storytelling

Create an animation, tell a tale with shadow puppets, invent sound effects, and practice the science of reading and phonetics with a letter-munching sea monster. Experience the transformative power of telling your own story as you are transported to new worlds.

## Digital Dome

***Digital Dome seating is limited and is open only to groups that have registered for a program or laser show.***

Travel through space, tour the human body, explore Earth's geography, experience a laser light show, or dive into an immersive movie. In this learning environment, you'll go places you never imagined and feel like you are actually there!

## Rooftop Adventure

Climb the one-of-a-kind play structures and stand on the top of our city! A bridge makes this expansive experience accessible to all. Use the rooftop track as you take in the city's skyline. Spin on cocoon swings or travel down a slide. Rooftop Adventure delivers play and rejuvenation for children and adults alike.

**NOTE:** The fourth floor is reserved for families visiting the museum during peak field trip times.





120 West 3rd Street  
Winston-Salem, NC 27101

[kaleideum.org](http://kaleideum.org)



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Permit No. 193  
Winston-Salem, NC



## WHAT IS KIC?

Kaleideum Invention Convention seeks to inspire and empower the next generation of innovators by being a vibrant hub of creativity, collaboration, and hands-on learning experiences in science, technology, engineering and math.

## CURRICULUM

Our K-12 Invention Convention curriculum and methods have been developed and put to the test by our educators for more than 30 years. Our curriculum follows a framework that uses the steps of the invention process. It enables students to understand invention as it takes place in the real world every day.

## INDEPENDENT INVENTORS

Most K-12 students participate in Invention Convention program through their school or community organization. However, if none of these options are available, K-12 students in NC may participate as an Independent Inventor!



**Create your  
next a-ha  
moment!**