



Educators' Guide 2024-2025



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

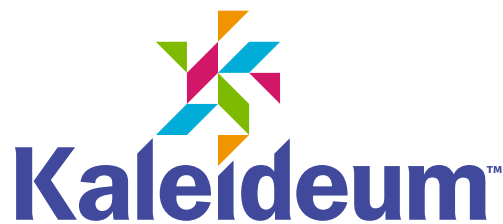


GENERAL INFORMATION



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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

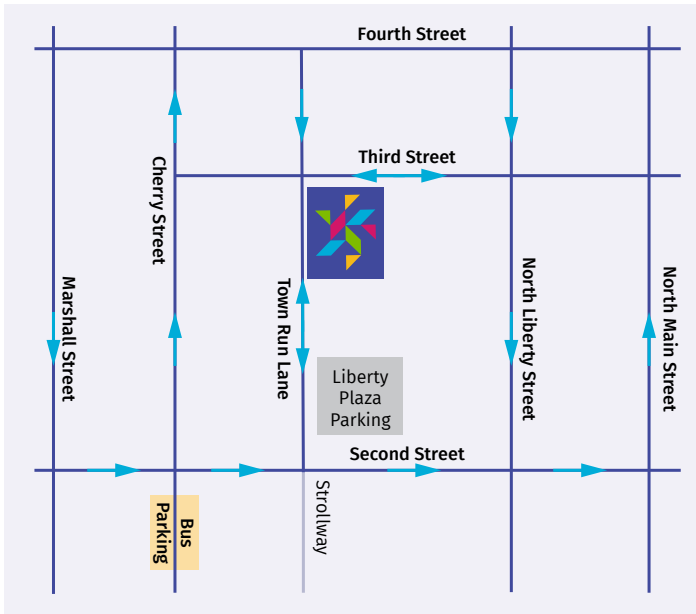
or visit

kaleideum.org/school-field-trip-form



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 available is off-site on Cherry Street.



Kaleideum Hours

SCHOOL YEAR

(Labor Day-Memorial Day)

Monday **Members Only**
 9 am-Noon
 Tuesday-Friday 9 am-5 pm
 Saturday-Sunday 10 am-5 pm

Kaleideum will be closed on specific holidays throughout the year. Please visit kaleideum.org for the most up-to-date information.



School Group/Homeschool 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.

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 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 or call **(336) 714-7104**.

To assist with planning, 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 this 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.**

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 that they be accompanied by an adult monitor.
- **Teachers receive a 10 percent discount on Fractals Gift Shop items.**



PLANNING YOUR VISIT

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 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.
- Food and drinks are allowed only in designated areas.
- Please don't feed any animals or tap on aquariums or enclosures.
- **Scavenger hunts are available for free download on our website.**



LEARNING LAB PROGRAMS

Learning Lab Programs are hands-on, interactive explorations for individual classes of up to 25 students. If you want to request a bilingual educator for your program, please tell the scheduler when you book it.

Homeschool groups please refer to our homeschool programming on page 10.

Shapes in Motion: A Geometric & Literary Adventure Grades PreK-1

What happens when a triangle gets tired of only having three sides and angles? In this storytime program, students will practice counting and sequencing numbers; create shapes with stepping stones and rope focusing on sides, corners and angles; identify familiar and discover new shapes; and create geometric works of art to bring 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 Math 1.G.1; 1.G.2**

Shady Tales: Exploring Shadows, Light, and Literature Grades PreK-1

How does light affect the world around us? Explore the characteristics of light and shadow by listening to a story about shadows, creating shadow puppets and experimenting with light.



North Carolina Foundations for Early Learning and Development – LDC-1,3,8,11; CD-1,2,3; APL-1,2,3,5,6
**North Carolina Standard Course of Study - Science PS.K.2; ESS.1.1
ELA-RL.K.1; RL.K.3; RI.K.5; RI.K.7; RI.K.9; RL.1.1; RL.1.3; RL.1.5; RI.1.1;
RI.1.7; RI.1.9**

Tiny Meteorologists Grades PreK-1

What will the weather be like today? Explore the four seasons and learn about observable weather patterns that occur daily and throughout the year! Students will imitate a rainstorm, watch a swirling tornado in a bottle, and create a beautiful rainbow craft as they 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

Sound Spectacular Grades PreK -2

Let your class put their “good vibrations” to use during 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

Creature Features: Fiction & Non-Fiction Fun PreK-2

Literature and animals collide at Kaleideum! Meet an animal ambassador and explore the difference between fiction and non-fiction stories. Share facts about the critter and explore the differences between real and make believe through literature. Complete the adventure by making a cool animal craft or experiencing an amazing science experiment!

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.1.1;
LS.2.1 ELA-RL.K.1; RL.K.3; RI.K.5; RI.K.7; RI.K.9; 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, Scale & Slime Grades K-2

Meet some Kaleideum animal ambassadors and explore the differences in animal groups by examining fur, feathers, scales, and slime. In this exciting hands-on program, become an animal detective by hatching an egg, examining animal pelts, and deciphering the life cycles of some common animals.



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;
LS.1.1 LS.2.1**

LEARNING LAB PROGRAMS

Junior Meteorologists

Grades 2-4

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 the forecast.

North Carolina Standard Course of Study – Science: ESS.2.1; ESS.4.1

What's the Matter?

Grades K-2

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 students melt, sort, and mix, their way through the states of matter.

North Carolina Standard Course of Study – Science: PS.2.1

Magnetic Marvels

Grade 1-2

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

Matter Mix-Up

Grades 3-5

Get exposed to matter by exploring the differences between physical and chemical changes. Students will sharpen their 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

Electricity and Magnetism Unleashed

Grades 4-6

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.5.1; PS.6.2

Motion Commotion

Grades 6-8

Investigate energy transformation using magnets and electricity to understand transfer of energy from one system to another using Snap Circuits. Then explore Kaleideum's **In Motion** exhibit and identify various simple machines in a real-world context.

North Carolina Standard Course of Study – PS.7.1.2; PS.7.2.1; PS.7.2.4

Chemistry Chaos

Grades 6-8

Observe various chemical reactions and learn about the indicators of a chemical change. Students will mix, sort and measure their way through different stations learning about the differences between chemical and physical changes, and how matter is arranged into elements, compounds, and mixtures.

North Carolina Standard Course of Study – PS.8.1.4; PS.8.1.1



OFF-SITE PROGRAM

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

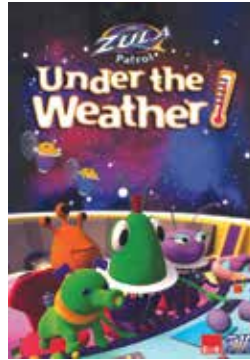
The Kaleideum Digital Dome is a cutting-edge immersive full dome theater experience, allowing your students to travel through the cosmos, dive deep into meteorological phenomena, and embark into a fascinating world of science and astronomy. **Digital Dome seating is limited. Programs for school groups only include students, teachers and monitors.**

Zula Patrol

Grades PreK-2

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 23-minute 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



Earth, Moon & Sun

Grades K-1

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

Cosmic Adventure

Grades K-5

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

Hazelnuts

Grades PreK-3

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 25-minute 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



Solar System Tour

Grades 1-6

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



One World, One Sky

Grades PreK-2

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



Universe

Grades 3+

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.

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+

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

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+

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+

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+

Explore the solar system, black holes, dark matter, and energy.

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

From Earth to the Universe

Grades 9+

This comprehensive overview of the universe takes students on a 30-minute journey through space to reveal the cosmos as understood through science.

North Carolina Standard Course of Study – Earth & Environmental Science: EEn.1.1; EEn.2.5

Two Small Pieces of Glass

Grades 9-12

At a local star party, two students stumble across an astronomer who teaches them the history of the telescope. From humble beginnings as a modified children's toy to the launching of the Hubble telescope and all the discoveries in between, this 23-minute program will highlight the discoveries that have been made using two small pieces of glass.

North Carolina Standard Course of Study – Cross-curricular Program: History & Science

LASER PROGRAMS



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

“It's an Intergalactic, Virtual-Reality Accelerator Suit. And it's been stolen!” In this laser movie, 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.

A Brief Mystery of Time

Grades 3+

A humorous laser movie 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.

Musical Laser Show

All Ages

A fun laser show that includes a spectacular laser display and music from Jurassic Park, Powerhouse, Yellow Submarine, Cotton Eyed Joe, and Ghostbusters. \$4 per person.

HOMESCHOOL PROGRAMS

Held on the second Tuesday of each month, Homeschool Programs are hands-on, interactive explorations that include a variety of educational activities. Programs begin at 1:30 pm. Pre-registration is required, and programs are limited to 20 students. Please register your child by age group. Registration links are available at kaleideum.org/homeschoolers.

Homeschool admission costs are \$8 per child (Forsyth County) and \$10 per child (outside Forsyth County). The first parent is free; second parent is \$10. In order to accommodate students we reserve the right to limit admission to the programs to one parent per child. Siblings must be registered to attend the program.

DATE	PROGRAM	GRADES K-2	GRADES 3-5
September 10	Crazy for Code	With Bee Bots' simple and intuitive interface, students will discover the basics of programming in a fun and accessible way.	Explore programming and coding through various forms of block coding using Botley, Sphero, and other coding robots.
October 8	Chemistry Quest	Explore the various stages of matter and perform a variety of exciting experiments.	Take an in-depth look at matter as we uncover the characteristics of physical and chemical changes.
November 12	Habitat Haven	Meet some of Kaleideum's animal ambassadors, hatch a turtle egg, explore animal life cycles, and look at the environments various animals inhabit.	Engage with Kaleideum's animal ambassadors to understand their relationship to the ecosystems they inhabit.
December 10	Energy Unleashed	Discover the characteristics of light and shadow by listening to a story about shadows, creating shadow puppets, and experimenting with light.	Investigate various forms of energy including light, electrical, and kinetic.
January 14	Magnetic Marvels	Examine properties of Earth's magnetic field. Experience magnetic forces and their ability to move objects without touching them.	Explore the properties of magnetism, from attraction to repulsion, gaining a deeper understanding of how magnets work.
February 11	Creature Features	Engage with a real-life animal ambassador before diving into fiction and non-fiction literature about the same creature.	Examine beloved stories featuring animal characters, by diving into themes, symbolism, and character development.
March 11	Brain Awareness	Join us for an interactive, hands-on program to learn about what the brain does, what it's made of, and its role in learning and memory.	Interact with Wake Forest University's Brain Awareness Council to see, touch, and learn about your brain and what it does.
April 8	Geology at Work <i>(Takes place at Vulcan Quarry)</i>	View the quarry up close and learn about the products mined at Vulcan and the uses of these materials in everyday life. Excavate geological treasures from sand boxes!	View the quarry up close and learn about the products mined at Vulcan and the uses of these materials in everyday life. Sort and identify a variety of rocks and minerals.
May 13	Inventors Workshop	Put your ingenuity to the test by designing an invention that could be used to solve a real-world problem. Learn about the Invention Convention!	Put your ingenuity to the test by designing an invention that could be used to solve a real-world problem. Learn about the Invention Convention!

PLEASE NOTE:

- Dates and programs may change.
- The homeschool admission prices are in effect on any day that Winston-Salem/Forsyth County Schools are in session. On Saturdays, summer months, school holidays, snow days, and teacher work days, regular admission rates apply.
- Prices include museum admission and program fee. NC Sales tax is applied to admission. Members, to receive your admission discount, register/sign in on the top right of your screen. Your discount will be applied in your cart before you complete your transaction.
- Proper home school identification is required.

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



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kaleideum.org

Book a STEMtastic Night!

Schedule us for an evening of exploration and discovery hosted at your school!

Get ready to immerse your students and their families in hands-on activities designed to ignite curiosity and spark a love for the STEM subjects. With 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.

