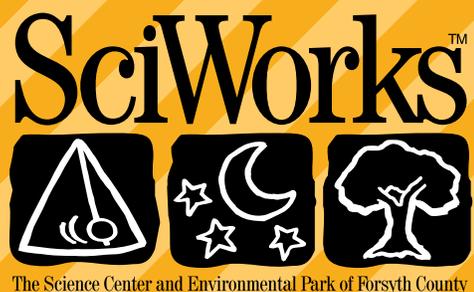


Educators' Guide 2016-2017



*Featuring programs
and exhibits correlated
to the NC Essential
Standards for Science*



GENERAL INFORMATION

SciWorks™



The Science Center and Environmental Park of Forsyth County

400 W. Hanes Mill Road, Winston-Salem, NC 27105

www.sciworks.org

Phone: (336) 767-6730

Scheduling: (336) 714-7105

Email: scheduling@sciworks.org

Fax: (336) 661-1777

Please visit www.sciworks.org/visit/directions
for directions and a map.



Hours

SCHOOL YEAR

Monday

Closed

Tuesday - Friday

10 am - 4 pm

*Scheduled groups
may enter at 9 am*

Saturday

10 am - 5 pm

Sunday

Noon - 5 pm

SUMMER

June 1 - Labor Day

Monday - Saturday

10 am - 5 pm

Sunday

Noon - 5 pm



Admission

*NC sales tax will be added
to admission prices*

General Admission (per person)

Adult	\$11
Seniors (62 and older)	\$9
Youth (Ages 3-19)	\$9
2 & Under	Free
SciWorks and Children's Museum of Winston-Salem Members	Free

School Group Admission* (per person)

Winston-Salem/Forsyth County School System** ...	Free
Forsyth County Home Schools with ID	\$3
Preschools***	\$3
Schools Outside WS/FC School System**	\$5.50
Chaperones**	\$5.50
Bus Drivers	Free

* *This group rate does not include planetarium
shows or programs.*

** *One adult chaperone free per 10 students.*

*** *One adult chaperone free per five students.*

School Group Program Fees (per person)

PreK-12 th Grade Programs.....	\$5.50
Live Sky Tours/Planetarium Shows.....	\$5.50
Laser Shows*	\$1.50

* *Available with scheduled planetarium show.*

See page 8 for more information.

Non-School Groups of 10 or More (per person)

*Includes planetarium show. To ensure you receive
this rate, pre-register your group at (336) 714-7105
or scheduling@sciworks.org.*

Adults*	\$9
Seniors (Ages 62 and older)	\$7
Youth (Ages 3-19)	\$7
Bus Drivers	Free

* *One adult free per 10 children.*



Like us at facebook.com/sciworksmuseum



Follow us on Twitter @[sciworksmuseum](https://twitter.com/sciworksmuseum)

*The Outdoor Parks close 30 minutes earlier than the
museum each day. SciWorks is closed on Thanksgiving,
Christmas Day, New Year's Day, and Easter.*



Reservations

Please make reservations at least two weeks prior to the requested date in order to ensure a greater number of program choices. You may schedule your visit by phone, email, or online:

(336) 714-7105

scheduling@sciworks.org

www.sciworks.org/school-field-trip-form

To assist with planning, teachers are invited to visit SciWorks free of charge with their valid teacher ID.

SciWorks' Scheduling Coordinator will contact you when your Registration Form is received. For questions, call (336) 714-7105 or email us at scheduling@sciworks.org.

Please indicate if your students function at a grade level different from that assigned so that programs can be presented at the appropriate level.

Important! Your field trip or group visit to SciWorks is not confirmed until you receive a confirmation letter from the SciWorks Scheduling Coordinator. Please bring this confirmation letter with you to present to the Admissions Desk when you come. **If you do not receive your letter within one week of booking your visit, please contact scheduling@sciworks.org or call (336) 714-7105.**

Cancellations or Late Arrivals

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

- If your group must cancel or reschedule your visit to SciWorks, please call (336) 714-7105 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 Admissions Desk at (336) 767-6730 and leave a message. A late arrival could result in shortened or canceled programs with no refund. Late entrance to a planetarium program in progress is not permitted.

Special Needs

SciWorks can accommodate a variety of special needs at the science center.

- SciWorks is handicapped accessible with special parking located in the third parking entrance on Museum Drive.
- Special lighting is available in the SciWorks planetarium to aid in signing for teachers of hearing impaired students. Please inform us of this need when you schedule your visit.

Dining

Bring a bag lunch for your field trip to SciWorks.

- FoodWorks is a spacious indoor dining area. (Tables may not be reserved.)
- Outdoor picnic areas are also available.
- Drinks and snacks are available from the vending machines in FoodWorks.
- SciWorks is convenient to many restaurants. When making your reservation, ask us about food delivery.

Museum Gift Shop

The SciShop features a wide array of fun and educational items to fit every budget and enhance your science center experience.

- For the convenience of all visitors, we ask that no more than 30 students visit the SciShop at one time and that chaperones accompany students inside.
- Pre-packaged gift bags, a convenient way to save time and money, are available for \$2 and contain a sampling of our most popular items. Please request gift bags when you schedule your field trip.
- **Teachers receive a 10% discount on SciShop items.**

Tips for a Great Visit

At SciWorks, we want everyone to have an excellent visit ...

- We recommend allowing at least two hours to explore the science center and outdoor parks.
- Classroom and auditorium programs are 45 minutes long.
- **Students must be chaperoned at all times.**
- Food and drinks are allowed only in FoodWorks and picnic areas.
- Please no running or rough-housing.
- Please no feeding the animals or tapping on aquariums or enclosures.



SCIWORKS EXHIBITS



PhysicsWorks

This interactive exhibit hall demonstrates principles of motion, forces, and simple machines. Learn about light, color, and optics in the Captured Shadow room. See and feel how a gyroscope works and affects movement and balance, and watch a cutting-edge 3-D printer in action.

K.P.1, K.P.2

1.P.1

2.P.1

3.P.1

4.P.1, 4.P.3

5.P.1

6.P.1

7.P.1, 7.P.2

PSc.1.1, PSc.1.2, PSc.3.1, PSc.3.2, PSc.3.3

Phy.1.1, Phy.1.2, Phy.1.3, Phy.2.1, Phy.2.3

North Carolina: Mountains to the Sea

This gallery reflects the geological and biological diversity of North Carolina, from the mountains to the piedmont and coastal plain. Walk inside a 20-foot tree to see the concentric rings; climb up through the inside and slide back down to the bottom! Younger children can practice fishing in the simulated stream, while all visitors can see a variety of live fish in the aquariums. Visitors can examine rock and mineral collections, and search for North Carolina plants and animals artistically rendered in the giant mural.

K.L.1

1.L.1, 1.L.2

2.L.1

3.L.2

4.P.2, 4.E.2, 4.L.1

5.L.2

8.E.1, 8.E.2, 8.L.3

Bio2.1, Bio 2.2, Bio 3.5

Science Lab

Adjacent to our “North Carolina: Mountains to the Sea” exhibit is the Science Lab featuring mounted displays of animals from around the world, fossil samples, skulls, shell collections, and many more natural science artifacts.

BioWorks

The BioWorks exhibit takes you from the tropical rain forests of South America to the fields of North America. Learn about conservation efforts on a local and global scale. This exhibit hall showcases a variety of live animals, including mammals, birds, reptiles, amphibians, fish, and invertebrates.

K.L.1

1.L.1, 1.L.2

2.L.1

3.L.2

4.L.1

5.L.2

8.L.3

Bio2.1, Bio2.2, Bio

3.4, Bio 3.5, EEn.2.7



SoundWorks

You'll hear it before you see it! Make your own music while learning about sound waves, vibrations, and the science of sound as you experience thunder drums, a walk-on piano, and more.

K.P.2

2.P.1

6.P.1

PSc.3.2, Phy.2.2



HealthWorks

This interactive exhibit hall includes a T.A.M (Transparent Anatomical Mannequin) theatre featuring detailed explanations of human organs and their functions. In BodyWorks, visitors can measure blood pressure, heart rate, visual acuity, and strength. Exhibits about human cells, DNA, and skeletal and muscular systems will foster a greater understanding of the human body. A giant walk-in mouth and other components promote good dental hygiene. An exhibit about nutrition and food selection encourages healthy choices.

3.L.1

4.L.2

5.L.1

7.L.1, 7.L.2

8.L.5

Bio 1.1, Bio 1.2, Bio 3.1, Bio3.2, Bio 3.3,

Bio 4.1, Bio 4.2

K.NPA.1, K.NPA.2,

1.NPA.1, 1.NPA.2

2.NPA.1, 2.NPA.2

3.NPA.1

4.NPA.1, 4.NPA.2

5.NPA.1

KEVAWorks

KEVA® planks are small, uniform blocks that allow visitors to use “no glue, just gravity” to construct towers, bridges, animals, buildings, sculptures, or almost anything else they can envision. A variety

of finished structures are on display in the exhibit to inspire young and old alike as they work together or independently to build their creations.



KidsWorks

Science activities for our youngest museum visitors include puzzles and puppets, blocks, and books. The country barn and “grocery store” will encourage imaginative play. Children can stay active climbing a soft-sculpture pyramid and building their own fort with giant blocks.

Outdoor Science Park

This exhibit explores simple machines, sound, and energy on a large scale. Giant bat ears enable students to listen like a bat and understand echolocation and sound waves. There is also a fossil dig for younger visitors, a rain garden, and a port demonstrating alternative energy.

K.P.1, K.P.2

1.P.1

2.P.1, 2.E.1

3.P.1, 3.E.1, 3.L.2,

4.P.3, 4.E.2, 4.L.1,

5.P.1, 5.E.1, 5.P.3, 5.L.2

6.P.1, 6.L.1, 6.L.2

7.P.1, 7.P.2

8.P.2, 8.E.1, 8.E.2

PSc.1.1, PSc.1.2, PSc.3.1, PSc.3.2

Phy.1.1, Phy.1.2, Phy.1.3, Phy.2.1, Phy.2.2,

EEn.2.8



Environmental Park

Take a leisurely walk through the winding trails of SciWorks’ Environmental Park, a 15-acre outdoor nature science exhibit. You’ll love meeting the barnyard animals, white-tailed deer, raccoon, waterfowl, and a playful river otter. There are gardens featuring native plant life and a display of common herbs. The Park offers a great contrast between North Carolina’s native species and habitats and domesticated plants and animals.

K.L.1,

1.E.2, 1.L.1, 1.L.2

2.E.1, 2.L.1,

4.L.1

5.P.2, 5.E.1, 5.L.2

6.E.2, 6.L.1, 6.L.2

7.E.1

8.E.1, 8.L.3

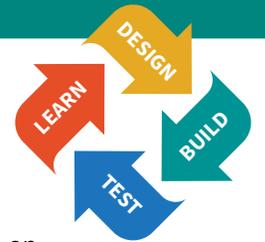
Bio 2.1, Bio2.2, Bio 3.5, Bio 4.2

EEn.2.1, EEn.2.2, EEn.2.3, EEn.2.4, EEn.2.6, EEn.2.7, EEn.2.8



ROTATING EXHIBITS

ENGINEER IT!



October 1, 2016 - January 8, 2017

Participate in the Design-Build-Test Cycle through hands-on experiments. Discover DaVinci’s interlocking bridge and our Exploration Table. Experiment with racetracks, paper airplanes/helicopters, gravity, and more!

Conservation Quest

Spring dates to be announced!

Learn about energy — what it is, where it comes from, how we use it and why it’s so important to use it wisely. Conservation Quest® delivers important conservation messages and inspires visitors to make thoughtful choices about energy to protect the planet and promote healthy living. See how simple actions can make a big difference for families, communities, and the planet.



CLASSROOM PROGRAMS

These programs are hands-on, interactive explorations for individual classes of approximately 25 students. They are available September-May. You must have at least 10 students to schedule. Groups with fewer than 10 students, please refer to the Small Group/Home School Schedule.

All About Animals Grades PreK-2

Meet some of our animal ambassadors as we explore the differences in animal groups by examining fur, feathers, and scales. Handle animal pelts and the shed skin from a snake. Make an animal craft to take home.



Sounds All Around Grades PreK-3

Let your class put their “good vibrations” to use. Students will make music with traditional instruments and natural objects while learning how they hear and having fun! Experiment with sound waves using an oriental resonating bowl.

What’s The Buzz? Grades PreK-4



Look into the world of insects, spiders, and other many-legged creatures. See what bees see, and learn about ladybugs’ favorite snacks and the life cycle of butterflies. Make insect art to take home!

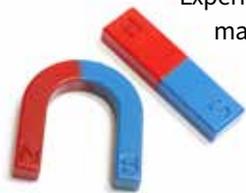
Pop, Bubble, Fizz.....Grades K-2

Students measure and mix as they sharpen observation skills and learn about lab safety. Experiment with color change, measure ingredients, and test chemical reactions while making fizzy brews and rubbery gloop.



Magnificent Magnets Grades K-4

Experiment with various sizes and shapes of magnets and determine with which materials they work best. Test the strength of electromagnets, observe the effect of magnets on a compass, and use metal filings to detect invisible magnetic fields.



Melting Pot Grades K-5

Turn solids into liquids and liquids into gases while making hand-dipped candles to observe matter’s structure and properties as they undergo physical changes. Discover how temperature affects the properties of matter, and experiment with different substances to see and feel the different states of matter.



Weather Wonders Grades K-5

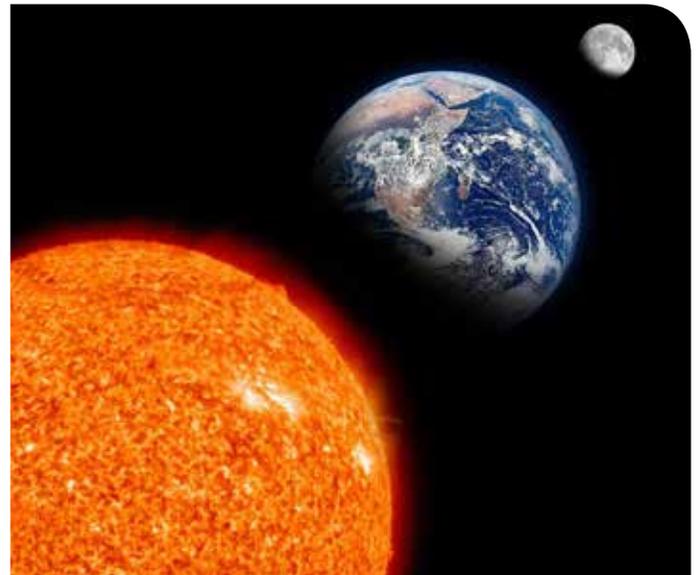
Get weather-wise in this hands-on program. Explore earth’s weather and how it forms. Watch a cloud in a jar and learn how meteorologists use weather-measuring instruments.

Down to Earth Grades 1-4

A class about rocks, minerals, and other earth materials. Scratch the surface of rocks and minerals to discover and observe hardness, luster, and other characteristics. Dig deeper into the basic components of soil. Discussion and hands-on stations help students learn about types, properties, identification, and uses of the Earth’s building blocks.

Earth, Moon, and Stars Grades 1-4

Explore the solar system with this hands-on, interactive program. We will cover the phases of the moon, earth’s rotation, and monthly changes in the night sky. This program will demonstrate in a 3-D way the solar system we call home.



Auditorium programs may be scheduled for a minimum of 15 and a maximum of 130 students. Groups with fewer than 15 students, please refer to our Small Group/Home School Schedule.



Fur, Feather, Scale, and Slime..... Grades K-9+

Examine the differences among mammals, birds, reptiles, amphibians, and fish. Discover the unique characteristics of various SciWorks animals. Touch and compare an assortment of animal pelts and bones, as you learn new and interesting facts.

Science of Sound..... Grades 3-6

Students will learn about the inner ear, sound waves, and vibrations. They will consider sounds in nature and the nature of sound, and experiment with a variety of instruments.

Note: Limited to 50 students.

Magical Mixtures..... Grades 3-9+



Students are exposed to the elements in this presentation about chemistry, energy transfer, and the states of matter. Predict the results of chemical reactions and then watch as these reactions produce heat, light, color changes, and a

very unusual smell. Learn about atoms with a glow-in-the-dark atomic demonstration and feel the explosive power of the simplest element.

Science Extravaganza..... Grades 3-9+

Experience an entertaining look at the wonders of biology when you meet one of our resident reptiles. Be shocked with an amazing look at electricity and have mixed emotions about crazy chemical concoctions. Witness the power of hydrogen and the unseen forces of electrons.

Electricity and Light..... Grades 4-9+

Your hair will literally stand on end in this exciting and electrifying program. Interactive demonstrations will show the differences between static and current electricity. Experiment with a plasma ball and see the “electric pickle” to learn how electricity can be conducted in a most unusual way. Explore the visible light spectrum and have some thought-provoking fun with light.

Sustainable Futures..... Grades 4-9+

More than 7 billion people live on Earth. Impacts that humans are having on this great ecosystem may go beyond its resiliency. Can we develop the technology and the moral force to live in a sustainable way? Participate in onstage activities that illustrate how much water is available to us, model water’s incredible journey, and explore connections within a habitat. View a hydrogen-fueled car, just one of the technologies being explored as a sustainable energy resource.

Space Explorations..... Grades 5-9+

What has the exploration of space helped us learn about space and about Earth? Knowledge of the Earth’s place in the solar system, the Milky Way Galaxy, and the Universe is gained from a range of sciences extending our senses. We can see out and see in, and the view couldn’t be better. Come join the exciting adventure of space exploration!



OUTDOOR PROGRAMS

Outdoor Programs will be offered rain or shine, so please dress appropriately. Maximum of 30 students.

Environmental Park Tours..... Grades PreK-9+

Take a look at the various barnyard animals and compare them with the white-tailed deer, raccoon, and river otter. Keep an eye out for other native wildlife and identify some of the trees and plants in the Environmental Park. Students will gain a greater appreciation for the natural world and have a better understanding of the interdependence of plants and animals.



Habitat Helpers..... Grades 1-5

Tour the SciWorks outdoor campus. Meet the resident animals and focus on their specific habitats and the interdependence of plants and other animals within those habitats. Learn how humans play a role in the health of an ecosystem, what positive things to do, and what negative things to avoid to be good stewards of the environment.

OFF-SITE PROGRAMS

Geology at Work..... Grades 5-9+



This program is led by SciWorks educators and takes place at Vulcan Materials Company: Joseph A. Gutierrez Geology and Earth Science Museum (4401 N. Patterson Ave., Winston-Salem, NC 27105). Students will see a large collection of gems and minerals, learn about the products and uses of these minerals in everyday life, and see the actual pit where the minerals are mined. This program is sponsored by Vulcan Materials Company.



OUTREACH

If your school or organization is interested in SciWorks doing an Outreach Program at your location, please contact Scheduling at (336) 714-7105 or scheduling@sciworks.org for more information and pricing.

PLANETARIUM PROGRAMS

The SciWorks Planetarium is a multi-media theatre. Inside the 50-foot dome, visitors experience a realistic simulation of the night sky as observed from any place on Earth. Special effects, slides, video images, and lighting are combined to enhance the overhead drama. Planetarium programs range from preschool to adult level and include many multi-cultural selections that reflect a world view of astronomy throughout the ages. The laser light system offers a dazzling light show set to music and includes a choice of selections for all ages. Groups with fewer than 15, please contact Scheduling at (336) 714-7105 or scheduling@sciworks.org.

The SciWorks Planetarium meets the following NC Essential Standards: 1.E.1, 3.P.1, 3.E.1, 4.E.1, 5.P.1, 6.E.1, EEn.2.1

	PreK	K	1	2	3	4	5	6-8	9+
In My Backyard Interactive program about constellations, moon phases, and planets.	*	*	*	*					
Sol & Company The solar system, comets, and asteroids.		*	*	*	*				
Secret of the Cardboard Rocket The solar system.			*	*	*	*			
The Alien Who Stole Christmas Explore the winter constellations and visit the solar system.			*	*	*	*			
Rusty Rocket's Last Blast The solar system and earth's gravity.			*	*	*	*			
'Tis the Season Winter constellations and the cultural traditions of the holidays.			*	*	*	*	*	*	*
Carolina Skies This live interactive class explores the stars visible in the night sky of North Carolina. Locate constellations and trace the paths of the planets. Explore the reason for the seasons and see actual footage of planets recorded by NASA spacecraft.					*	*	*	*	*
Follow the Drinking Gourd A slave family follows the Big Dipper to freedom.					*	*	*	*	*
Mystery of the Missing Seasons Seasonal constellations and the reason Earth has seasons.					*	*	*	*	
Planet Patrol The solar system.					*	*	*	*	
The Hunt for the Red Sprite Earth's atmosphere, storms, and the Red Sprite.					*	*	*	*	*
WSKY, Radio Station of the Stars A variety of astronomical topics presented as a radio call-in show.					*	*	*	*	*
Ring World Cassini-Huygens mission to Saturn.							*	*	*
The Mars Show Learn more about Mars.							*	*	*
The Explorers Historical celestial navigation and future exploration.							*	*	*
Seeing the Invisible Universe Astronomical observations using invisible wavelengths of light.								*	*
Islands in a Sea of Night Star clusters, quasars, nebulae, and galaxies.								*	*



A 15-minute multi-media laser light program can be added to your planetarium program for an additional \$1.50 per student. Choose from the following themes:

Monsters and Mermaids



Mannheim Steamroller Christmas



Beatles



Space and Beyond (movie medley)



Stars & Stripes



Laser Fun

SCIWORKS PROGRAMS Correlated to the NC Essential Standards for Science

GRADE	PHYSICAL SCIENCE	EARTH SCIENCE	LIFE SCIENCE
K	<p>Forces and Motion Environmental Park Tours</p> <p>Matter, Property, and Change Magnificent Magnets Pop, Bubble, Fizz Melting Pot</p>	<p>Earth Systems, Structures, and Processes Weather Wonders</p>	<p>Structures and Functions of Living Organisms All About Animals Environmental Park Tours Habitat Helpers What's the Buzz?</p>
1	<p>Forces and Motion Earth, Moon, and Stars Magnificent Magnets</p> 	<p>Earth in the Universe Earth, Moon, and Stars</p> <p>Earth Systems, Structures, and Processes Down to Earth Habitat Helpers Magnificent Magnets</p>	<p>Ecosystems All About Animals Habitat Helpers Environmental Park Tours What's the Buzz?</p> <p>Molecular Biology All About Animals Habitat Helpers Environmental Park Tours What's the Buzz? Fur, Feather, Scale, and Slime</p>
2	<p>Forces and Motion Sounds All Around</p> <p>Matter, Properties, and Change Melting Pot Pop, Bubble, Fizz</p>	<p>Earth Systems, Structures, and Properties Weather Wonders</p>	<p>Structures and Functions of Living Organisms All About Animals Fur, Feather, Scale, and Slime What's the Buzz?</p>
3	<p>Forces and Motion Earth, Moon, and Stars Science Extravaganza</p> <p>Matter, Properties, and Change Magical Mixtures Pop, Bubble, Fizz Melting Pot Science Extravaganza</p> <p>Energy Conservation and Transfer Science Extravaganza Weather Wonders</p>	<p>Earth in the Universe Earth, Moon, and Stars Weather Wonders</p> <p>Earth Systems, Structures, and Processes: Earth's Surface Down to Earth</p>	<p>Structures and Functions of Living Organisms All About Animals</p> <p>Ecosystems Habitat Helpers</p> 
4	<p>Forces and Motion Electricity and Light Science Extravaganza Magnificent Magnets</p> <p>Matter, Properties, and Change Down to Earth Pop, Bubble, Fizz Magnificent Magnets Science Extravaganza Melting Pot</p> <p>Energy Conservation and Transfer Electricity and Light Science Extravaganza</p>	<p>Earth in the Universe Earth, Moon, and Stars</p> <p>Earth History Down to Earth</p>	<p>Ecosystems All About Animals Habitat Helpers Environmental Park Tours Sustainable Futures What's the Buzz?</p> <p>Molecular Biology Fur, Feather, Scale, and Slime</p>
5	<p>Forces and Motion Space Explorations Science Extravaganza</p> <p>Matter, Properties, and Change Geology at Work Science Extravaganza Magical Mixtures Weather Wonders Melting Pot</p> <p>Energy Conservation and Transfer Earth, Moon, and Stars Melting Pot Magical Mixtures Science Extravaganza</p>	<p>Earth Systems, Structures, and Processes Earth, Moon, and Stars Environmental Park Tours Sustainable Futures Weather Wonders</p>	<p>Structures and Functions of Living Organisms Fur, Feather, Scale, and Slime</p> <p>Ecosystems Environmental Park Tours Habitat Helpers Sustainable Futures</p>
6	<p>Forces and Motion Space Explorations Science of Sound Electricity and Light</p> <p>Matter, Properties, and Change Magical Mixtures Science Extravaganza</p> <p>Energy Conservation and Transfer Electricity and Light Science Extravaganza</p>	<p>Earth in the Universe Space Explorations</p> <p>Earth Systems, Structures, and Processes Space Explorations Geology at Work Sustainable Futures</p>	<p>Ecosystems Environmental Park Tours Sustainable Futures</p> 
7	<p>Forces and Motion Space Explorations Science Extravaganza</p> <p>Energy Electricity and Light</p>	<p>Earth Systems, Structures, and Processes Space Explorations Sustainable Futures</p>	
8	<p>Matter Magical Mixtures Science Extravaganza</p> <p>Energy Conservation and Transfer Space Explorations Sustainable Futures</p>	<p>Earth Systems, Structures, and Processes Sustainable Futures</p> <p>Earth History Geology at Work</p>	<p>Ecosystems Sustainable Futures</p>

FOR EDUCATORS



Workshop: Environmental Experiences for Early Childhood

**Saturday,
October 1, 2016
9 am - 4 pm**

Project Learning Tree (PLT) is an interdisciplinary environmental education program designed for educators of any background. The hands-on activities facilitate the exploration of topics including plants, geology, recycling, water, wildlife, and much more!

The *Environmental Experiences for Early Childhood* curriculum was developed for preschool and early childhood educators. The guide includes more than 130 learning experiences to engage children ages 3-7 in outdoor play and exploration. Materials are correlated to NAEYC standards and the Head Start framework.

Workshop and materials are provided at no cost to participants through partnership with the NC Forestry Association; however, pre-registration is required.

For more information and to register, contact Kelli Isenhour at (336) 714-7106 or kisenhour@sciworks.org.

FOR MIDDLE SCHOOL AND HIGH SCHOOL STUDENTS

Groups must pre-register for these events.

NanoDay

Tuesday, November 1, 2016 • 9 am - Noon

Nanoscience, the study of structures and materials on the scale of nanometers (one-billionth of a meter), comes alive for students as they visit demonstration tables throughout SciWorks.

NanoDays
The Biggest Event for the Smallest Science!

Brain Awareness Day

**Wednesday, March 15, 2017
9 am - Noon**

Wake Forest University's Brain Council will have interactive stations throughout SciWorks for students to visit and learn about neurons, anatomy, memory, and other functions of the brain. This event is co-sponsored by the Western North Carolina Chapter of the Society for Neuroscience.



HOME SCHOOL GROUPS AND SMALL GROUPS

To ensure space, YOU MUST PRE-REGISTER FOR THESE PROGRAMS. Programs are limited to the first 20 students. Adults/parents may be asked to leave if the number of people in the classroom exceeds capacity.

Date	Grades K-4: 10 am	Grades 5-9: 11 am
September 6, 2016	What's the Buzz?	Habitat Helpers
October 4, 2016	Geology at Work*	Geology at Work*
November 1, 2016	NanoDay** (10 am - Noon)	NanoDay** (10 am - Noon)
December 6, 2016	Melting Pot	Advanced Melting Pot
January 3, 2017	Pop, Bubble, Fizz	Magical Mixtures
February 7, 2017	Weather Wonders	Electricity and Light
March 7, 2017	Earth, Moon, and Stars	Space Explorations
April 4, 2017	All About Animals	Fur, Feathers, Scale, and Slime
May 2, 2017	Environmental Park Tour	Science Extravaganza

* *Geology at Work* will be held at Vulcan Materials, located at 4401 N. Patterson Ave., Winston-Salem, NC 27105. Groups and families should check-in at SciWorks first.

** Homeschoolers will participate in NanoDay from 10 am to Noon, and all grades are invited to participate. This will be an on-your-own exploration of the stations and demonstrations. Registration is still required to ensure enough educational materials are available.

FOR EVERYONE!

Bats, Bees, and Butterflies

September 24, 2016

10 am - 4 pm



Daisy Day: “Three Cheers for Animals”

Saturday, November 12, 2016

Calling all Girl Scout Daisies! Join us for this workshop where we will work together to learn all about animals through fun art projects, fascinating stories, and live animals. And we might even learn a little something about ourselves along the way! To register, contact Christy Ferguson at (336) 714-7105 or cferguson@sciworks.org.

Science Cafés at River Ridge Taphouse

Free, informal talks that offer you a chance to learn about the latest groundbreaking research from regional scientists. Science Cafés are held at River Ridge Taphouse in Clemmons, NC.

Thursday, September 8, 2016,

7 pm

Thursday, October 13, 2016,

7 pm

Thursday, November 10, 2016,

7 pm

Visit www.sciworks.org for speaker and topic details, as well as additional Science Café dates.

Laser Shows

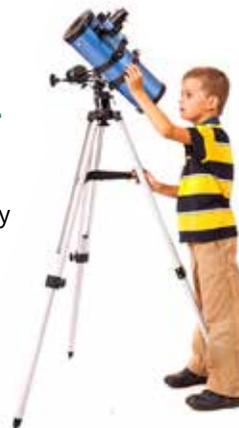
Laser shows are \$6/person or see two or more shows for \$5/person per show. See www.sciworks.org for titles and specific times. (Exhibit galleries and outdoor parks will be closed.)

September 17, 2016

October 22, 2016

Stargazing with Forsyth Astronomical Society

Members of Forsyth Astronomical Society will share their telescopes and knowledge with anyone interested in learning about the night sky. Visit www.sciworks.org for event times. Dates subject to change based on weather. Call ahead for updates.



Saturday, October 8, 2016

7:30 - 10:30 pm at SciWorks

Saturday, November 19, 2016

5:30 - 10 pm at Pilot Mountain
State Park

Telescope Workshop

Saturday, November 19, 2016

1 - 4 pm

Science Camp-ins

SciWorks offers Camp-ins for individual groups such as church groups, 4-H, and private overnight birthday parties. We can customize your event by offering programs, crafts, food, or just a unique space to spend the night. Call (336) 714-7105 to discuss options and pricing.



Festive Family Friday

Friday, December 9, 2016

4:30 - 8:30 pm

Celebrate the holidays with science! Admission is reduced on this evening, so you can explore the museum, listen to live holiday music, make holiday crafts, and visit with some very special holiday guests — including Santa himself!

Winter Day Camps

December 27, 28, and 29

9 am - 4 pm

Scout Camp-ins

Scouts will have the opportunity to work on a science-themed project, see a science show and a planetarium show, and, best of all, have the museum all to themselves to explore!

March 3, 2017 – Cub Scouts

March 10, 2017 – Cub Scouts

March 31, 2017 – Brownies and
Jr. Girl Scouts

Spring Day Camps

April 11, 12, and 13

9 am - 4 pm

Visit www.sciworks.org for more information about these and other special events!

SciWorks Partners in Science 2015-16

Thank you to these individuals and organizations who donated \$1,000 or more to the SciWorks Annual Fund programs, exhibits, and events.

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