We grow minds, too.
WELCOME EDUCATORS!

The Dallas Arboretum brings science to life for over 100,000 students and teachers every year, and the Rory Meyers Children’s Adventure Garden remains a one-of-a-kind natural wonder. Featuring 17 interactive galleries with more than 150 kid-friendly, STEM-focused exhibits to explore, the garden engages, educates and entertains your students.

Choose from teacher-led programs throughout the Children’s Adventure Garden, including our renowned Texas Native Wetlands and OmniGlobe. Attend a classroom or outdoor lab in the Main Garden, all of which are standards-aligned and led by our highly-trained staff.

In addition, we are proud to offer a full lineup of outreach programs, afterschool residencies and academic overnights to engage your students in the Rory Meyers Children’s Adventure Garden after hours! We are more than just a beautiful garden... We grow minds, too!

Did you know?

All teachers receive free admission year-round to plan their field trips.

We offer a full year of professional learning opportunities in the garden.

We also serve your scout, homeschool and family groups with custom programming including workshops, badge programs and holiday camps!

KNOW BEFORE YOU GO

- Add education@dallasarboretum.org to your safe senders list!
- Make sure you know whether your group is arriving to the Children’s Adventure Garden (Gate 3) or Main Garden (Gate 1).
- Students must be with an adult at all times at a ratio of 8:1.
- Bring labeled containers for lunches. Wheeled coolers work best as we are unable to provide assistance.
- Plan to be outdoors – wear walking shoes and raincoats/jackets, if appropriate.
- We provide your program times, but please group your students and assign chaperones before arrival to the Arboretum.
- We send standards-aligned pre- and post-visit resource guides for every program.

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TEKS CORRELATIONS – See website for complete listings.

- Process Skills
- Matter, Energy & Motion
- Earth
- Space
- Life

A PDF of the guide is available at www.dallasarboretum.org/education
Since the Children’s Adventure Garden first opened in September 2013, over 650,000 students and teachers have engaged in STEM experiences with the Dallas Arboretum!

LEARNING GALLERY PROGRAMS
RESERVE AN INSTRUCTOR-GUIDED GALLERY PROGRAM THAT BRINGS SCIENCE TO LIFE IN OUR AMAZING, INTERACTIVE OUTDOOR MUSEUM AND GARDEN. RESERVATIONS INCLUDE PRE-AND POST-VISIT RESOURCE GUIDES AND ACCESS TO OUR ENTIRE GARDEN. ALL CONTENT IS CUSTOMIZED FOR YOUR SPECIFIC GRADE LEVEL NEEDS.

LITTLE SPROUTS GARDEN ADVENTURES
SQUIRREL ADVENTURE K–1ST GRADE
Help Nuts the Squirrel find a new home! This interactive outdoor programs focuses on the changing seasons and animals’ habitat needs. Students listen to a big book story about the life of a squirrel and engage with characters in an outdoor puppet show. [Offered August-December]

BUTTERFLY ADVENTURE K–1ST GRADE
What will happen to Cathy Caterpillar? This fun, interactive program brings metamorphosis to life with a big book story about the butterfly life cycle and an outdoor puppet show. [Offered February-May]
HABITATS
AT HOME IN THE WILD K–2ND GRADE
Students gather in a giant eagle’s nest with larger than life eggs to explore the basic needs of plants and animals by modeling a food web. Then, students walk through a wooded habitat and a meadow, using a grade-specific trail guide to investigate what lives in a rotting log, a tree snag and in the tree tops.

TREE TREK 3RD–6TH GRADE
Trees are amazing! How many of these giant plants outlive humans? Students discover the science of studying a tree, and through hands-on activities, investigate what these organisms need to live a long life in a woodland ecosystem. Students walk through the Discovery Trail Loop to explore how trees provide shelter and food to other organism and discover how trees are adapted to survive in changing habitats.

LIVING CYCLES K–5TH GRADE
Explore the growth and change of a diverse set of organisms. Students compare the physical appearance of adults and offspring to assess how plants and animals change over time and investigate pollinators and their role in life cycles. In the gallery, students identify and observe the roles of decomposers, methods of seed dispersal, organisms in different stages of their life cycle and the process of pollination.

MOODY OASIS
MONARCH MANIA K–6TH GRADE
Texas is a prime spot to observe monarch butterflies - it lies between the breeding grounds to the north, in Canada, and the overwintering areas to the south, in Mexico. Our certified Monarch Waystation is the perfect place to observe monarchs and many other pollinators. In this program, students learn all about the fascinating life of the monarch butterfly and what they can do to help them survive. Students may even spot monarchs in the garden! [Peak times are typically early October and late March.]

PATH TO POLLEN K–6TH GRADE
Are insects our friends or foes? Are they all pests? No! 75% of all flowering plants need animal pollinators. This includes the majority of the plant foods in our diet. In this program, students learn about the important relationships between plants and pollinators and how each are adapted to benefit from one another.

INCREDIBLE EDIBLE K–6TH GRADE
Which foods provide us with the most energy? How much of our plates should be fruits and vegetables? Where do we get our food? In this program, students explore healthy food choices, uncover where food comes from and investigate new techniques currently used in urban farming.

PLANTS ARE ALIVE
PUMPKIN POWERED K–2ND GRADE
Each autumn, the Arboretum is transformed by thousands of pumpkins, gourds and squash. In this seasonally-spiced version of our Plants are Alive program, students learn about the differences between living and nonliving things and explore the structures and functions of a pumpkin plant. Each class receives pumpkin seeds to take back to school for planting and further observation. Don’t miss our breathtaking pumpkin display in the Main Garden before or after your program. [Offered 9/23–10/31/2019]

ROOT TO FRUIT K–2ND GRADE
How do we know that plants are alive? In this program, students learn about living and nonliving things and plant parts and their functions through hands-on activities, songs and dramatic play. Students explore the gallery to investigate the similarities and differences between the same parts of different plants and share their findings.
TEXAS NATIVE WETLANDS  1ST–6TH GRADE
How healthy is our habitat? In this program, students explore our Texas Native Wetlands and collect data on our outdoor, island classroom. Students make connections between the living and nonliving parts of the ecosystem to determine the health of our waterway using cutting-edge scientific tools.

EARTH CYCLES
EARTH FROM SPACE  2ND–6TH GRADE
Life on Earth is dominated by regular and repeating patterns. In this program, students learn all about the relationships between the seasons, moon phases, shadows and planets through hands-on demonstrations and a focused student activity in the gallery. If you’ve been struggling to show the connections between these topics, this is the class for you!

DYNAMIC EARTH  4TH–6TH GRADE
The Earth is always changing. Weathering, erosion, deposition and the movement of tectonic plates cause slow and rapid changes to the Earth’s surface. In this program, students participate in hands-on inquiry with actual rock samples and observe natural processes of change at our interactive stream table. A focused activity helps students discover the dynamic, natural world as they explore the gallery. Bring Earth science to life in our outdoor learning lab!

KALEIDOSCOPE  3RD–6TH GRADE
Explore how science is the study of natural patterns and how humans make use of these patterns. Students first identify patterns regularly found in nature and then investigate how patterns can be analyzed with math by looking at the Fibonacci sequence. Students then explore the gallery and quantify the most commonly observed shapes in plants. Next, they discuss how shapes are adaptations and how humans have used natural shapes as inspiration for our designed world.

PURE ENERGY  4TH–6TH GRADE
In this program, students develop a new understanding of alternative energy sources and the transfer of energy. Students first discuss forms and sources of energy and work together to create a living circuit. Then, small teams explore the water, solar and wind islands to record data on these three sources of renewable energy.

OMNIGLOBE
PLANETARY VOYAGE  3RD–6TH GRADE
Travel through the solar system and beyond in our Globe Theatre. During this program, students view 360-degree imagery of the planets through NASA satellite views projected on our five-foot-tall OmniGlobe. They discover what makes each planet unique, including our irreplaceable planet, Earth. This captivating program ensures high student engagement as they become the experts on a wide range of science topics.

POWERFUL OCEANS  3RD–6TH GRADE
Earth’s oceans play an incredible role in creating and regulating weather, climate and other vital environmental systems. In this program, students discover these powerful bodies of water from an astronaut’s perspective on the largest OmniGlobe in Texas! As students observe animated ocean currents, hurricanes and real-time weather patterns from satellite data projected on a five-foot sphere, they explore why organisms across our planet depend on the health of the oceans.

To see more Children’s Adventure Garden information: www.dallasarboretum.org
CLASSROOM LABS
RESERVE AN HOUR-LONG CLASSROOM LEARNING EXPERIENCE AT THE VISITOR EDUCATION PAVILION IN THE MAIN GARDEN TO EXPLORE A VARIETY OF LIFE AND EARTH SCIENCE TOPICS. RESERVATIONS INCLUDE ADMISSION TO THE MAIN GARDEN AND CHILDREN’S ADVENTURE GARDEN. ALSO AVAILABLE AS OUTREACH PROGRAMS AT YOUR SCHOOL!

PUMPKIN CIRCLE K-2ND GRADE
After distinguishing between living and nonliving things, students explore the basic needs, parts and functions of pumpkin plants. Students discuss the life cycle of a pumpkin and plant their own seeds to take back to school for observation. Compliment this program with a walk through the Arboretum’s Pumpkin Village [9/23-10/31 only]. Note: If this class is booked outside of pumpkin season, we may replace the pumpkin with another squash.

EARTH ROCKS! K-2ND GRADE
Introduce your students to the world of geology as they take a closer look at rocks. In this program, students observe a diverse sample of rocks and sort the rocks by size, shape, color and texture. Students also observe a variety of everyday products that are made from rocks and identify the properties of the rocks used to make each one.

THE SCOOP ON SOIL K-2ND GRADE
Take a closer look at soil! Students work in groups to observe a soil sample from the Arboretum grounds and sort out the components that make up the soil. Groups then compare their observations with each other and discuss how scientists learn from samples. Students explore how water moves through different types of sediment and discuss the characteristics of soils that support plant growth.

RESTLESS EARTH 3RD-5TH GRADE
Every place has a story. In this lab, students explore the slow processes that create geological change: weathering, erosion and deposition. The 3rd and 4th grade students investigate how these processes lead to the formation of soils and use this information to explain why soils have different properties. The 5th grade students identify how these processes lead to the formation of landforms and use this information to explain why certain places look the way they do and predict how areas could change in the future.

IT’S A BUG’S LIFE 2ND-5TH GRADE
The Arboretum is home to hundreds of plant and animal species, including many bugs! In this program, students identify and compare the basic parts of plants and their functions. Students make observations of common edible plant parts and determine which edible plant part the class prefers to eat. Each student plants a sunflower seed to take home for further observation. A visit to the Incredible Edible Garden in the Rory Meyers Children’s Adventure Garden before or after this class will help students investigate the life cycles of the plant parts we eat, too!

NEW! EDIBLE PLANT PARTS K-2ND GRADE
In this delicious lab, students identify and compare the basic parts of plants and their functions. Students make observations of common edible plant parts and determine which edible plant part the class prefers to eat. Each student plants a sunflower seed to take home for further observation. A visit to the Incredible Edible Garden in the Rory Meyers Children’s Adventure Garden before or after this class will help students investigate the life cycles of the plant parts we eat, too!

FLIGHT OF THE HONEYBEE K-2ND GRADE
In this lab, students take on the roles of honeybees and flowers to act out the process of pollination and explore the interdependent relationship between these organisms. Students closely examine honeybee specimens and a flower model to better understand how flowers attract pollinators and how honeybees gather nectar and pollen.

PLANT DETECTIVES K-2ND GRADE
Do all leaves look the same? What about stems and roots? In this lab, students identify basic plant parts and investigate plant diversity by comparing and contrasting the unique structures of live plants. 1st and 2nd grade students explore how different structures allow plants to meet their needs.

DISAPPEARING ACT 3RD-6TH GRADE
What happens when an organism in an ecosystem disappears? Students first investigate three organisms: white-tailed deer, post oak trees and grey wolves. They create a model of the Post Oak Savannah to actively simulate how the local extinction of wolves in this area affects all components of the ecosystem. Each student acts as either a wolf or a deer in this engaging, interactive lab.

GARDEN DESIGN CHALLENGE 3RD-6TH GRADE
What environmental factors and landscape design choices must our horticulture staff consider when designing our seasonal plantings? In this multi-disciplinary lab, students work with actual Arboretum plant lists and design notes to create a landscape in the garden. Follow up the class with a visit to the space students just designed! [Only offered on-site]
Looking for an experience at your campus? See page 11 for a variety of options, including all of these classroom labs!
OUTREACH

AFTERSCHOOL
INVITE THE DALLAS ARBORETUM TO YOUR SITE TO MAKE AFTERSCHOOL A FUN AND ACTIVE LEARNING EXPERIENCE. THESE HIGHLY INTERACTIVE INDOOR AND OUTDOOR CLASSES ALLOW STUDENTS TO EXPLORE NATURE BEYOND THE CLASSROOM WALLS. ALL PROGRAMS EXTEND CLASSROOM LEARNING TIME WITH CLEAR ALIGNMENT TO THE STATE STANDARDS.

PROGRAM DETAILS
Each 7-week unit consists of one weekly 90-minute lesson on the topics listed below. Discounts may apply for the purchase of multiple units.

4TH-5TH GRADE UNITS

DIVERSITY OF LIFE
Students learn that within an ecosystem, producers, consumers, decomposers, predators and prey have unique adaptations that allow them to occupy diverse niches. All of these organisms work together forming food chains and food webs which enable an ecosystem to survive. Students investigate different plant and animal adaptations through hands-on activities and experiments.

ECO-QUEST
Students learn about the sun’s role in producing energy and the flow of energy from the sun to plants to people. They investigate and compare renewable and non-renewable energy sources, explore alternative energy and conduct experiments to better understand electricity. Hands-on activities, role-playing and outdoor activities make this a fun and active learning experience.

2ND-3RD GRADE UNITS

PLANTS FOR SURVIVAL
Students discover plant parts, their functions and life cycles as they investigate real plants. They learn how a plant is an important part of food chains and webs, and how living organisms depend on them. They explore ecosystems and plant adaptations, as well as the human impact on the environment. Students record their learning in a nature journal as they take part in classroom investigations and scientific exploration in their schoolyard.

BUTTERFLIES, BEES AND BLOSSOMS
In this unit, students discover the basic needs of insects, while learning about their body parts and life cycles. Students will make use of models, maintain a student journal and observe living specimens throughout the seven weeks. They also dissect real flowers and explore their schoolyard to investigate pollinators and interdependence in this fascinating, interactive program.

See Pages 10-11 for Pricing and Financial Aid information.
GARDEN ON THE GO
LET US BRING OUR LEARNING EXPERIENCES TO YOUR SCHOOL! BOOK A GARDEN ON THE GO PROGRAM TO BRING ANY OF OUR CLASSROOM LABS TO YOUR CAMPUS. PROGRAMS CAN ACCOMMODATE UP TO 30 STUDENTS PER SESSION.

THESE CLASSROOM LABS ARE AVAILABLE AS GARDEN ON THE GO OUTREACH:

PUMPKIN CIRCLE
EDIBLE PLANTS PARTS
FLIGHT OF THE HONEYBEE
PLANT DETECTIVES
EARTH ROCKS
THE SCOOP ON SOIL
RESTLESS EARTH
IT’S A BUG’S LIFE
DISAPPEARING ACT

WE ALSO OFFER THESE ADDITIONAL LABS FOR GARDEN ON THE GO OUTREACH ONLY:

WATER WORKS!
3RD–5TH GRADE
Water has some amazing properties! Students take a closer look at the physical properties of water and work in teams to create a usable water wheel, showing how this natural resource can serve as a renewable source of energy.

BUZZ ON BEES
4TH–6TH GRADE
Honeybees are essential to our food production, and their numbers have declined in recent years. In this problem-based lab, students collect and analyze data from different hives to identify the likely causes of colony collapse disorder and explore what they can do to help.

PLANT SECRETS
3RD–5TH GRADE
Although the Arboretum is home to many plants, not all the plants in our gardens are adapted to thrive in the Dallas area. In this lab, students make observations of a diverse selection of plants from the ecoregions of Texas and explore how each plant’s structures allow it to survive in a particular environment. Emphasis is placed on supporting claims with evidence.

*See pages 6-7 for complete descriptions.

AUDITORIUM
A PUPPET SHOW, COSTUMES AND LARGER-THELIFE MODELS MAKE THESE 30-MINUTE INTERACTIVE PROGRAMS AN EXPERIENCE YOUR STUDENTS WON’T FORGET. AUDITORIUM PROGRAMS CAN ACCOMMODATE UP TO 100 STUDENTS PER PERFORMANCE.

WISHING FOR WINGS K–2ND GRADE
Students learn about the characteristics of butterflies including their basic needs, the unique stages of their life cycle and metamorphosis through an interactive puppet show, costumes and larger-than-life models.

NUTS THE SQUIRREL K–2ND GRADE
Students are introduced to the concepts of seasonal change, adaptations and habitats through an interactive puppet show, costumes and larger-than-life models.

TEKS CORRELATIONS – See website for complete listings.

Process Skills
Matter, Energy & Motion
Earth
Space
Life

OUTREACH
ADMISSION
All on-site Arboretum educator-led field trips include access to the Children’s Adventure Garden for K-6th grade from March-December. Self-guided field trips do not include access to the Children's Adventure Garden. The Children's Adventure Garden is closed January 1–February 28. Please note: A Tasteful Place and the DeGolyer House are not open to school groups. We kindly ask you to notify chaperones to avoid these areas.

PROGRAMS AND PRICING
Program availability and pricing are subject to change. Outreach programs outside of Dallas County are subject to a travel fee. Most programs are eligible for Learning Partners funds for DISD schools. Visit dallasarboretum.org for the most current program pricing and travel fees.

CHANGES, PAYMENTS AND REFUNDS
A non-refundable deposit is due within 10 days of making your reservation ($50 for reservations totaling less than $500, $100 for reservations over $500, $2000 and up, 50% deposit). Final payment is due two weeks prior to visit date. Refunds will only be made in the event of garden closings due to inclement weather or other issues deemed serious enough by the Dallas Arboretum to warrant cancellations. No other refunds will be issued. All deposits are nonrefundable. The Arboretum does not issue refunds or tickets for absent group members.

All schedule and attendance changes must be made no later than two weeks before your visit. If you need to reschedule or cancel your reservation, you must email the Reservations Department at education@dallasarboretum.org at least two weeks before your scheduled visit in order for your payment to be applied to a new visit date.

SPECIAL NEEDS
Please let the Reservations Department know if you are bringing children with special needs in need of specific accommodations.

MEMBERSHIP
Dallas Arboretum membership or complimentary tickets are not valid for student participants in scheduled educational field trips, unless specifically advertised on our website.

CHAPERONES/ADULTS
Schools are required to maintain the 1:8 adult to student ratio at all times, with those teachers/chaperones receiving free admission. All teachers are counted towards this ratio. Additional adults will be required to pay normal admission prices and may not be able to attend scheduled programs due to space limitations. Non-school vehicles are required to pay normal parking price. Discounts may be available online.

SIBLINGS/STROLLERS
Education experiences are only open to school-aged children included in the group reservation. Siblings and strollers should not be brought with chaperones and may be refused entry to educational programs.

FINANCIAL AID
The Arboretum offers financial assistance of up to 50% off Title I student costs and bus transportation stipends of $100, on a limited basis, for Arboretum teacher-led educational programming. Please complete the Financial Aid Request Form on the Arboretum’s website at dallasarboretum.org/financial aid. A Field Trip or Outreach Request Form must be submitted at the same time to be considered for financial aid. Financial Aid Request forms submitted after a field trip has been approved will not be honored.
### AT THE ARBORETUM

<table>
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<th>Program</th>
<th>Price*</th>
<th>Length of Program</th>
<th>Maximum Per Group</th>
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<tr>
<td>Learning Gallery Program</td>
<td>$10</td>
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<tr>
<td>Little Sprouts</td>
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<td>Classroom Labs</td>
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<td>Christmas Village Guided Tour</td>
<td>$10</td>
<td>60 minutes</td>
<td>30 students</td>
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<tr>
<td>Texas Native Plant Lab</td>
<td>$10</td>
<td>60 minutes</td>
<td>30 students</td>
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<tr>
<td>Nature's Works of Art</td>
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<tr>
<td>Middle School / High School custom program</td>
<td>$15</td>
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### MAINT GARDEN SELF-GUIDED

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<td>Our Place at Your Pace</td>
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<tr>
<td>Art at the Arboretum</td>
<td>$9</td>
<td>N/A</td>
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*Book any field trip (excluding custom) at the Arboretum from Aug. 1 - Sept. 20 or Jan. 1 - Feb. 28 at our off-peak rate of just $5 per student!

### OUTREACH

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<tr>
<th>Program</th>
<th>Additional Information</th>
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<td>Garden on the Go</td>
<td>Minimum of 4 bookings per school per day</td>
<td>45 minutes</td>
<td>30</td>
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<td>Auditorium Program</td>
<td>Minimum of 2 bookings per school per day (or additional fees may apply)</td>
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<td>After School Program</td>
<td>7-week unit</td>
<td>1.5 hours each lesson</td>
<td>25</td>
<td>$1505 per unit</td>
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</table>
The Dallas Arboretum's education programs have been made possible by the generous support of our 2019-2020 Education Partners:

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The Theodore and Beulah Beasley Foundation, Inc.
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