

2020-2021 Educator's Guide



We grow minds, too.

DALLAS ARBORETUM AND BOTANICAL GARDEN

WELCOME EDUCATORS!

What better place to let nature nurture you and your students than at The Dallas Arboretum and the one-of-a-kind natural wonder Rory Meyers Children's Adventure Garden, featuring 17 interactive STEM-focused galleries with over 150 kid-friendly exhibits to educate and entertain.

The Dallas Arboretum wants you and your students to know that our top priority is the health and safety of our guests and employees. We are excited to welcome you back to the garden and all of the educational opportunities it offers around life and earth sciences. At this time, all programs listed in this guide are available to reserve on any available dates during the 2020-2021 school year. As we enter this school year with COVID-19 concerns in mind, we are offering socially distanced, group size restricted indoor and outdoor programs that include outdoor gallery programs in the Rory Meyers Children's Adventure Garden, indoor and outdoor classroom labs, afterschool programs and can bring the beauty and education from the garden to you through our outreach programs. Please check the Education website for updates on program reservation policies as the school year progresses and stay informed on garden wide COVID-19 policies.

Teachers, did you know we've moved our <u>Professional Learning</u> online?

Parents, if your children are learning online and need help with the most difficult life and earth science concepts, please contact us. We can offer a customized, socially distanced learning experiences here at the garden.

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 and create content for their classrooms!



KNOW BEFORE YOU GO

- Face coverings and social distancing are required garden-wide. Additionally, until such a time that COVID-19 precautions are eased, only children 5 years of age and older will be admitted to the Children's Garden. Children will be provided disposable gloves when entering the Children's Adventure Garden.
- Add education@dallasarboretum.org to your safe senders list!
- Make sure all members of your group park at Gate #1
 (Main Entrance) and an education staff member will greet you for entry.
- Students must be with an adult at all times at a ratio of 8:1.
- Bring labeled containers for lunches at socially distanced tables. Wheeled coolers work best as we are unable to provide assistance.
- Plan to be outdoors wear walking shoes and raincoats/jackets, if appropriate.
- Arboretum-led programs: We provide your program times, but please group your students and assign chaperones before arrival to the Arboretum.
- We send a standards-aligned pre- and post- visit resource guide for every program.

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RORY MEYERS CHILDREN'S ADVENTURE GARDEN





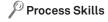
OUR PLACE AT YOUR PACE

RESERVE A SELF-GUIDED VISIT, FOR YOUR EDUCATIONAL GROUP, THAT BRINGS SCIENCE TO LIFE IN OUR AMAZING, INTERACTIVE GARDEN. RESERVATIONS INCLUDE A PRE- AND POST-VISIT RESOURCE GUIDE AND ACCESS TO OUR ENTIRE MAIN GARDEN. CHILDREN'S ADVENTURE GARDEN ACCESS AVAILABLE AT ADDITIONAL COST.

OUR PLACE AT YOUR PACE

Looking for something more flexible? Create your own adventure as students explore Dallas's most beautiful classroom: the Dallas Arboretum. This option includes access to the Arboretum's Main Garden where students can experience the mist in the Palmer Fern Dell, investigate the fossils in the water walls at the Lay Ornamental Garden and identify Texas native plants in the Waterwise Garden. Children's Adventure Garden access available at additional cost. We will provide grade-specific exploration journals to use during this self-guided visit. PK-8th Grade: Don't forget your pencils! High school groups will be given a photography scavenger hunt, so each group will need a camera (like your mobile phone). P 🜎 🍖

TEKS CORRELATIONS - See website for complete listings.





Process Skills - - Matter, Energy & Motion 💲 Earth 🛕 Space







RORY MEYERS CHILDREN'S ADVENTURE GARDEN



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 TEKS-ALIGNED FOR YOUR SPECIFIC GRADE LEVEL NEEDS. RESERVE NOW!

HABITATS

TREE TREK 3RD-6TH GRADE

Trees are amazing! How do 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 organisms and discover how trees are adapted to survive in changing habitats.

LIVING CYCLES 3RD-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 3RD-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 3RD-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.





TEXAS NATIVE WETLANDS 3RD-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.

INCREDIBLE EDIBLE 3RD-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.

EARTH CYCLES

EARTH FROM SPACE 3RD-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.

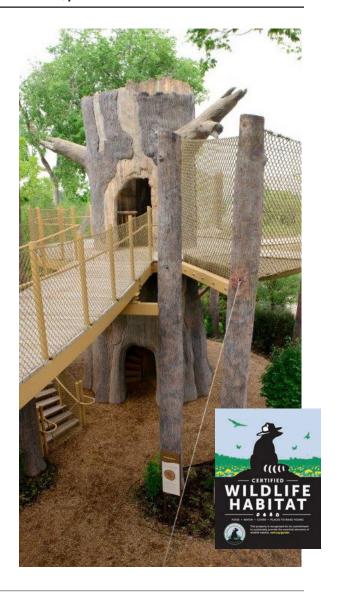
OMNIGLOBE

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 from our five-foottall 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 from our five-foot sphere, they explore why organisms across our planet depend on the health of the oceans.





OUTDOOR PROGRAMS IN THE MAIN GARDEN

IN ADDITION TO OUR CLASSROOM LAB PROGRAMS, WE OFFER SEVERAL SEASONAL PROGRAMS OUTDOORS IN THE MAIN GARDEN. RESERVE NOW!

TEXAS NATIVE PLANT LAB

3RD-6TH GRADE

From plains and coasts to mountains and basins, Texas is home to a great diversity of flora. This program focuses on plants which are specially adapted to survive in diverse ecosystems. Through hands-on investigations utilizing digital equipment, students refine their scientific observation skills while exploring cacti, succulents, grasses and wildflowers in this educational garden. Get up close and personal with some of our state's most fascinating plants!

NATURE'S WORKS OF ART

3RD-6TH GRADE

The beauty and wonder of trees and flowers have enchanted artists for centuries. In this Arboretum educator-led program, students explore color, shape and texture in nature and investigate the artistic skills used in a variety of jobs at the Arboretum. 🔎





CLASSROOM LABS

RESERVE AN HOUR-LONG CLASSROOM LEARNING EXPERIENCE HELD AT THE VISITOR EDUCATION PAVILION OR OUTDOORS 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 - GARDEN ON THE GO ON YOUR RESERVATION FORM!

IT'S A BUG'S LIFE 3RD-5TH GRADE

The Arboretum is home to hundreds of plant and animal species, including many bugs! In this program, students identify 'bug' as an informal name given to terrestrial arthropods and observe live organisms to identify the traits that make insects different from other arthropods. Students look closely at various arthropod adaptations that support survival in different environments and investigate the unique life cycles of different organisms.

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. 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. 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.

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]



OUTREACH: 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 ENGAGING LABS TO YOUR CAMPUS. PROGRAMS CAN ACCOMMODATE UP TO 30 STUDENTS PER SESSION. TEACHING YOUR STUDENTS FACE-TO-FACE INDOORS OR OUTSIDE? BOOK NOW!

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.

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 renewable source of energy.

BUZZ ON BEES 4TH-5TH 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.



OUTREACH: GARDEN ON THE GO

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TRAVELING SEEDS 3RD GRADE

How do seeds travel? While observing a diverse collection of seeds, students take a closer look at the physical properties of flexibility, magnetism, mass and the ability to float in water. They use these observations to explain how specific physical properties of seeds help them travel in different ways. ρ

ENERGY IN THE GARDEN 3RD GRADE

How can we use different forms of energy to solve problems that arise in a garden? After exploring, describing and identifying 4 forms of energy (mechanical, light, thermal and sound) in everyday objects, students are presented with garden scenarios. Then they are challenged to design strategies to address the problems using

MODELS: SUN, MOON & EARTH 3RD GRADE

Take a bird's-eye view of space! Students first create a humansized model to demonstrate the relative positions of the Sun, Earth and Moon and the orbits of the Earth and our Moon. Then, they use 3D printed models to demonstrate the same concepts, in a different way. Finally, students are challenged to create their own 2D model to demonstrate their understanding. 🔎 💄

RAPID CHANGES 3RD GRADE

How do volcanoes, earthquakes and landslides impact Earth's surface? Students explore images that show the aftermath of volcanoes, landslides and earthquakes. Then they use models to further investigate these geological processes. Students are challenged to describe a strength and weakness of each model.





Did you know?

Program results show significant growth in student STAAR success over their district peers!

Student documents and assessments available in English and Spanish.

These inquiry-based programs cover topics in all four reporting categories and even include access to \$TAAR-style pre/post questions.

MATTER OVER TIME 4TH GRADE

What happens to our trash over time? In this lab, students first measure and record physical properties of a "fresh" piece of trash. Then, they measure and record the physical properties of that same type of trash that has been buried in soil for multiple weeks. Students use this data to discuss what happens to trash in a landfill and discuss what we can do to reduce the amount matter that is added to landfills.

PICKLE POWERED 4TH GRADE

Can a pickle light a lightbulb? First, students differentiate among forms of energy, including mechanical, electrical, light, thermal and sound. Then, they identify these various forms of energy in electrical circuits and experiment with building a pickle battery, creating a circuit which powers a lightbulb.



OUTREACH: GARDEN ON THE GO

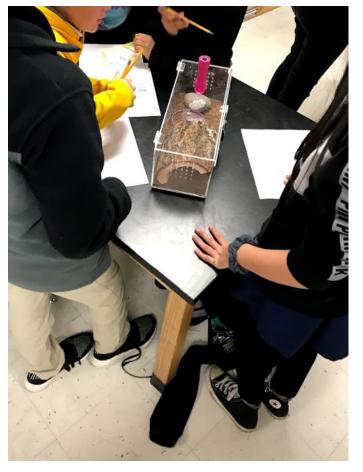
LET US BRING OUR LEARNING EXPERIENCES TO YOUR SCHOOL! BOOK A GARDEN ON THE GO PROGRAM TO BRING ANY OF OUR ENGAGING LABS TO YOUR CAMPUS. PROGRAMS CAN ACCOMMODATE UP TO 30 STUDENTS PER SESSION. TEACHING YOUR STUDENTS FACE-TO-FACE INDOORS OR OUTSIDE? BOOK NOW!

ALL ABOUT ANTS! TRAITS AND BEHAVIORS 4TH GRADE

Let us bring our ant farm collection to your classroom! In this lab, students explore and describe inherited traits and learned behaviors while observing live ants. First, students observe and identify the inherited traits ants share with all insects and those traits that make ants unique. Then, they discuss the behaviors of these social insects and identify the difference between instinctual and learned behaviors. D

ECOSYSTEMS IN ACTION 4TH GRADE

What happens when the top predator leaves an ecosystem? In this lab, students identify the physical characteristics and ecological roles of 5 organisms: red wolves, post oak trees, turkey vultures, white-tailed deer and earthworms. Then, they create a food web to show how energy flows through this ecosystem. Finally, students play a game to explore how the local extinction of the red wolf in the eastern half of Texas impacts the entire food web.





LANDFORM FORMATION 5TH GRADE

Why does the surface of Earth look the way it does? First, students observe images of landforms from around the globe. Then they use stream tables to investigate and describe how wind, water and ice contribute to the formation of sand dunes, valleys, canyons and deltas. \wp

ECO FLOW 5TH GRADE

Our arthropod collection will travel to you! In this lab, students observe live tarantulas, walking sticks, pill bugs and beetles in their habitats and identify interactions between living and nonliving components in these ecosystems. ρ

EXPLORING DAY AND NIGHT 5TH GRADE

Why do we experience day and night? First, students make observations of a time-lapse video of the setting sun. Then, they experiment with two different models and construct an explanation based on direct and indirect evidence, to explain the cause of the day and night cycle.

AMAZING ADAPTATIONS: PLANTS 5TH GRADE

After reviewing the basic structures and functions of plants, students complete three stations to observe and describe a diverse selection of leaves, stems and roots. Students then learn about different Texas environments and infer, based on their observations, which plant grows best in each environment.







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.

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. ρ

ECO-QUEST

Students learn about the sun's role in producing energy and the flow of energy from the sun to plants and 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 compelling learning experience.





3RD-5TH GRADE UNIT

LEARN, GROW, EAT & GO! (LGEG!) Looking to get more out of an

existing garden on your campus? This customizable unit is the perfect afterschool program for you! LGEG grows informed students through an interdisciplinary program combining academic achievement, gardening, nutrient-dense food experiences, physical activity and school and family engagement. You can even add a Living Tower hydroponic system and keep it for the entire semester!



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.



RESERVATION POLICIES

ADMISSION

For the 2020-2021 school year, until COVID-19 restrictions change, program availability and group sizes may be restricted. Program reservations require a minimum of 3 weeks notice so we can ensure your group can be accommodated in a socially distanced environment. We will update the Education website as changes occur.

Please note: A Tasteful Place and the DeGolyer House are not open to school groups. We kindly ask you notify parents to avoid these areas.

PROGRAMS AND PRICING

All Arboretum teacher-led field trips cost \$10 per student with access to the Children's Adventure Garden included at no additional cost. Self-guided programs cost \$10 per attendee with a \$2 additional fee to add access to the Children's Adventure Garden. 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 our Education website for the most current program pricing and travel fees.

CHANGES, PAYMENTS AND REFUNDS

A 50% non-refundable deposit is required at the time of reservation confirmation by the Education Department. Final payment is due 30 days prior to scheduled visit date. If not paying in full at the time of the reservation, please plan to have payment mailed in advance to ensure it arrives by the due date. Credit card payments accepted.

Programs reserved less than 30 days in advance of booked date require full payment upon reservation confirmation, of which 50% will be non-refundable. If payment is not made by due date, we reserve the right to open your booked reservation dates and class times to others.

No refunds except in the event of garden closings due to inclement weather or other issues deemed serious enough by the Dallas Arboretum to warrant cancellations. The Arboretum does not issue refunds or tickets for absent group members nor will it make adjustments to the attendance number past the time of booking confirmation, except to add additional tickets as needed.

If you need to reschedule or cancel your reservation, you MUST email Reservations at education@dallasarboretum.org TWO WEEKS before your scheduled visit in order for your payment to apply to one (1) future visit. Any additional future changes in bookings will require rebooking and a new 50% deposit.

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 added at the time of booking will receive the discounted rate of \$15, including Children's Adventure Garden admission.

Otherwise, additional adults showing up the day of the field trip will be required to pay normal admission prices and may not be able to attend scheduled programs due to space limitations. Participants traveling in non-school vehicles to the Arboretum will be subject to parking policies and feesParking discounts may be available online.

SIBLINGS/STROLLERS

Education experiences are only open to 3rd-6th grade school children included in the group reservation. Siblings and strollers should not be brought with chaperones and may be refused entry to educational programs.



Please view our Children's Adventure Garden etiquette video with your students prior to your visit.

Contact us at education@dallasarboretum.org for virtual offerings!

| AT THE ARBORETUM | STUDENT PRICE* | LENGTH OF PROGRAM | GROUP SIZE |
|-----------------------------|-------------------|--|----------------|
| CHILDREN'S ADVENTURE GARDEN | | | |
| Learning Gallery Program* | \$10 | 45 minutes | 15-30 students |
| MAIN GARDEN | | | |
| Classroom Labs* | \$10 | 60 minutes | 15-30 students |
| Texas Native Plant Lab* | \$10 | 60 minutes | 15-30 students |
| Nature's Works of Art* | \$10 | 60 minutes | 15-30 students |
| SELF-GUIDED | | | |
| Our Place at Your Pace | \$10 | Add Children's Adventure Garden access + \$2 per person | |

*Minimum fee of \$150 to book an Arboretum teacher-led program, and includes Children's Adventure Garden access. Additional adults may be added at a fee of \$15 (+ \$2 for Children's Adventure Garden)

| OUTREACH | ADDITIONAL INFORMATION | LENGTH OF PROGRAM | MAXIMUM PER GROUP | PRICE |
|----------------------|--|--------------------------|----------------------|-----------------|
| Garden on the Go | Minimum of 4 bookings per school per day | 45 minutes | 30 | \$150 per class |
| After School Program | 7-week unit | 1.5 hours each lesson | 25 | \$1505 per unit |



Submit a Field Trip Request Now



FESTIVALS

PLAN YOUR VISIT DURING OUR FAVORITE TRADITIONS

AUTUMN AT THE ARBORETUM SEPTEMBER 19-OCTOBER 31

Presented by Reliant

Over 90,000 pumpkins, gourds and squash come together to form the nationally acclaimed Pumpkin Village featuring The Art of the Pumpkin.

DALLAS BLOOMS FEBRUARY 20-APRIL 11

You haven't experienced spring in Dallas until you've seen our 500,000 blooming bulbs and themed topiaries. Our show of color is like nothing you've seen before!



Visit our Professional Learning page for current teacher offerings.

The Arboretum offers bus transportation stipends of \$100, on a limited basis, for Arboretum teacher-led educational programming for Title I campuses. Please indicate your financial aid request with your field trip submission.

Discounted admission funds are not available at this time. Any changes will be updated on our website.



THANKS TO OUR FRIENDS

Please visit our website for the most up-to-date program and professional *learning information* throughout the 2020-2021 school year!



The Dallas Arboretum's education programs have been made possible by the generous support of our 2020-2021 **Education Partners:**

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> A special thanks to our presenting sponsor:

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