



Queens
Botanical Garden

Environmental Workshops & Tours for School Groups



2011/2012

“I was scared of bees, but now I know how important they are!” —1st grader

**“The workshop was perfect for my kindergarten students—informative and very engaging.”
—Kindergarten teacher**



**“Worms are the best!”
—3rd grader**



**“Thank you for all the things you taught me today.”
—6th grader**

**“I found the hands-on component of the workshop particularly useful in communicating the lessons to my students.”
—4th grade teacher**

**“I can’t wait to come back!”
—2nd grader**

**“I was so impressed with the Garden and the instructor’s wealth of botanical information.”
—5th grade teacher**

**“My Professional Development class was just what I needed to help me explain science principles to my students.”
—8th grade teacher**



Enrich the classroom experience with workshops from Queens Botanical Garden!

A leader in environmental education, QBG welcomes students across New York City and beyond to our 39-acre living museum. Our hands-on workshops for Pre-K through high school learners cover a myriad of topics from Honeybees to Biomes, and our instructors are noted for their wealth of knowledge about plants, animals, and insects as well as sustainable design and environmental stewardship principles.

Besides the outdoor learning opportunities, our Visitor & Administration Building is a veritable living encyclopedia of sustainable technologies. Platinum LEED® certified by the U.S. Green Building Council, this remarkable space combines innovations such as a green roof, bioswales, photovoltaic panels, and a graywater recycling system into a building that provides habitat for plants and animals, reduces stormwater runoff and heat island effect, and conserves energy.

Teaching by example, QBG's workshops enhance classroom lessons and are based on science curriculum, satisfying National and New York State Science Standards, along with NYC Performance Standards.

Key to the workshops



Con Ed Curriculum



Edith Glick Shoolman Curriculum
for Young Learners



best for pre-K & kindergarten



best for grades 1 & 2



best for grades 3, 4 & 5



best for grades 6, 7 & 8



best bet for spring



best bet for late spring/summer



best bet for fall



best bet for winter



See pages 10–11 for a quick guide to workshops and tours.

Most QBG workshops can be customized for grades Pre-K through 12, and off-site workshops are available on a limited basis. Contact us at 718-886-3800 ext. 230 for details.

Visit us at www.queensbotanical.org/education

Workshops

As the Worm Turns

Are worms good or bad? Learn the importance of worms in our gardens and how to use them to recycle kitchen and garden waste. Explore a worm bin and the critters that live inside and bring one back to explore in your classroom (optional).

\$130 per class with \$50 optional worm bin set-up

Biomes and Plant Communities

Explore plants and the ecology of biomes around the world. Discover how plants and their parts have adapted in order to survive in the desert or tropical rainforest. Students create a model environment for further study. Please select one theme per workshop.

- **Terrarium** — models the rainforest water cycle with tropical plants
- **Desert Dish Garden** — demonstrates the unique adaptations of cacti and succulents
- **Asian Dish Garden** — focuses on cultural expression through the landscape
- **Propagation Activity** — seeds and cuttings plus one “mini-greenhouse” for each student

\$130 per class + \$8 per student (\$5 per student for Propagation Activity)



City Plants

Wild plants—what some people call weeds—have ecological importance. Explore QBG and see how our meadows and swales of wild plants and flowers help prevent flooding and erosion while nurturing the soil and providing habitat. Collect and press specimens to take home. Learn to identify wild plants and flowers in your own school or backyard using field identification techniques and how to create a herbarium for further scientific observation.

\$150 per class

Color Me Autumn

Available late September — early November

We all begin to adapt to the chill in the air, and there are many changes occurring in our garden environment as well. Observe how plants and animals are preparing for winter and discover how the life cycle of a plant ties into seasonal patterns and changes. Includes a leaf activity.

\$150 per class

Dr. George Washington Carver

Called the “Wizard of Tuskegee,” Dr. George Washington Carver made significant contributions in the field of botany. Learn how plants played a very important role in his early life and about his later achievements such as uses for peanuts and sweet potatoes. Paint with plants and plant a peanut to take home and watch it grow.

\$150 per class



Con Ed Curriculum



Shoolman Curriculum



Spring best bet



Late Spring/
Summer best bet



Fall best bet



Winter best bet



Pre-K &
Kindergarten



Grades
1 & 2



Grades
3, 4 & 5



Grades
6, 7 & 8

Good Guys and Bad Guys 3-5

Are all bugs insects? What makes an insect an insect? Discuss the interdependency of insects and plants, explore how their characteristics enable them to survive, and discover garden critters that are beneficial and harmful in our garden community. Includes a hands-on activity.

\$150 per class

Growing Together 3-5

A unique multicultural offering. Plants, like people, come from many different regions and countries throughout the world. Colorful displays of plants and food bring students on a world journey discovering the origins of plants we eat every day. The trip ends with a tasting of fruit and planting a "little world in a pot."

\$150 per class



Honeybees pk/k 1/2 3-5

Explore the life cycle of honeybees while discovering the intricate relationship they have with flowering plants. Visit the QBG Bee Garden's working hives and taste honey.

\$150 per class

Katydid for Kids pk/k 1/2

Aimed at younger audiences, this workshop explores insect biology and diversity. Includes a take home flower planting to encourage pollinator species.

\$150 per class



Making Scents of Plants pk/k 1/2 3-5

Flowers are not the only part of the plant that can have a beautiful fragrance. Discover how plants evolved to use scents to communicate with the world and how people have used them. Includes a take-home potpourri.

\$130 per class + \$6 per student

Plants & Animals pk/k 1/2 3-5

Plants and animals need each other in many ways. Investigate the food chain and food web and the ways that living things rely on each other in order to survive in the garden community. Includes a seed planting to take home.

\$150 per class

Plants in the Lives of the First Americans 3-5

Available October, late March through May

Discover the importance of plants as they relate to American history. Identify needs shared by all people and how the first Americans used plants to fill those needs. Go on a food foraging tour and make a tasty "wild" salad.

\$180 per class

Visit us at www.queensbotanical.org/education

Plants We Eat!



Do you eat your fruits and vegetables? Explore plant parts, identify their functions, and discover which of these parts we eat. Includes a seed planting to take home.

\$150 per class

Trees & Me



Trees provide us with wood, food, and paper and help our environment in many ways. Explore the life cycle of a tree and what they need to grow while determining the role trees play in our daily lives. Plant a tree seed to take home and watch grow.

\$150 per class



Special Workshops

Energy: You Move Me

6-8

Be moved by the amazing journey energy takes as it transforms from one form to another; explore the plant adaptations that make them the base of every food chain, and how people are learning from their example. Using demonstrations in your classroom, this course discusses various sources of energy and processes that humans use to generate electricity. During the second lesson the students visit the Garden and become familiar with plant adaptations that collect and allocate energy, learn how plants increase their energy efficiency, and discover how our U.S. Green Building Council Platinum LEED® certified building mimics those adaptations. An optional third lesson is available to take a closer look at the consequences that human decisions regarding energy have on our local and global environment, and the available remedies.

Made possible by leadership support from The Louis Calder Foundation.

Sessions 1 & 2: \$300 per class

Session 3: \$150 per class

Water: Round & Round It Goes

6-8

3-session program

Bring your students on a journey of discovery focusing on the vital importance of water and how environments—either natural or man-made—offer ecological and economic services that clean water and slow down and absorb storm water. This three-part program provides an overview of NYC's watershed, reviews the scientific method, and offers an experiment for set-up in your classroom. Students learn about the water cycle, the interdependence of living things in the non-living environment, and the consequences of human activity. Students visit the Garden twice for hands-on experiences in QBG's U.S. Green Building Council Platinum LEED® certified building and associated landscapes and participate in activities that solidify the learning goals of the program.

Made possible by leadership support from The Louis Calder Foundation.

\$450 per class



Con Ed
Curriculum



Shoolman
Curriculum



Spring
best bet



Late Spring/
Summer best bet



Fall
best bet



Winter
best bet



Pre-K &
Kindergarten



Grades
1 & 2



Grades
3, 4 & 5



Grades
6, 7 & 8

Tours

Guided Tours

To help you get the most out of your visit, QBG instructors are available to guide tours for classes Pre-K and up through garden exhibits that provide unique learning opportunities. Seasonal displays, which vary from year to year, provide a showcase of environmental, botanical, and cultural themes. Our permanent gardens include the Bee Garden with working hives, as well as the Woodland, Herb, Perennial, and Wetland Gardens. Tours of our Visitor & Administration Building (LEED® Platinum certified by the U.S. Green Building Council) are also available. Teachers may request a customized tour related to the subject area being investigated in the classroom.

\$125 per tour

Self Guided Tours

Self Guided Tours offer an excellent opportunity for groups to explore Queens Botanical Garden at their own pace and investigate the specific exhibit areas that compliment their classroom studies. To enrich the experience, a map and suggested activities will be provided with pre-trip information. As an added value, the QBG Field Guide is also available at a discounted rate of \$5. Self Guided Tours are available Tuesdays through Fridays with advanced registration; pre-payment is required.

\$30 per tour + \$5 per field guide (optional)

Register online: queensbotanical.org/education/selfguidedtours



Special Programs

Urban Advantage

QBG is one of eight partner institutions in the Urban Advantage middle school science exit project initiative—a standards-based science education initiative that utilizes the extraordinary resources of New York City's science-rich cultural institutions to support learning of science for the city's public middle school students. For more information, go to: www.urbanadvantagenyc.org.

Professional Development

Queens Botanical Garden is committed to serving as a resource for area schoolteachers. Education staff is available to provide inquiry-based workshops tailored to your school or regional professional development goals. QBG teacher training workshops provide an opportunity for educators to integrate outdoor experiences into their classroom curriculum. Please call 718.886.3800 ext. 371 to discuss your professional development goals and to tailor any one of QBG's current program themes into an exciting training experience. Our Professional Development roster includes:

- P Credit Course: Botany, Ecology and Sustainability

Schools and school district offerings include:

- Classroom Extensions into the Garden and Garden Extensions into the Classroom
- Observations with Plants — How Do Scientists Think?
- Exciting and Easy Classroom Gardening
- The Waste Stream
- Customized Workshops

Visit us at www.queensbotanical.org/education

General Workshop Information

Maximum class size is limited to 30 students. Special Education class size is limited to 15 students. Workshops and Guided Tours are offered Mondays through Fridays. Self Guided Tours are available Tuesdays through Fridays.

Workshop fees include one adult chaperone per 5 students for Pre-K classes, and one adult per 10 students for grades K and above. This does not apply to Special Education classes.

A maximum of 5 additional chaperones may accompany a class for an additional fee of \$10 per person.

Workshops start promptly and are approximately 1-1/2 hours. Guided tours are one (1) hour. Classes arriving late will receive a shortened program that will end at the originally scheduled time. Groups arriving more than 30 minutes late for their scheduled program will be cancelled. Refunds are not available.

Registering for School Programs

Advance registration and pre-payment are required for all programs.

To register call 718.886.3800 ext. 230 or email schoolprograms@queensbotanical.org. To register for Self Guided Tours, please go to queensbotanical.org/education/selfguidedtours

Payment

Payment may be made by credit card, or by DOE Purchase Order, check or money order made payable to Queens Botanical Garden. Please mail your payment to:

Queens Botanical Garden
Education Department
43-50 Main Street
Flushing, NY 11355



Payment is due upon receipt; if payment is not received by the invoice due date, Queens Botanical Garden reserves the right to cancel the program.

Separate registration is required for each class. We cannot accommodate groups of students combined from different classes.

Once your payment is received, an email confirmation will be sent that includes a website link to access pre-trip information and other details on your visit.

Please note that the confirmation you receive via email is your only invoice for your registration. Because of the large volume of registrations we receive, we are unable to make reminder calls; a scheduled visit is not confirmed until payment is received.

Queens Botanical Garden reserves the right to refuse registrations for any reason.

Postponements and Cancellations

If you must cancel your trip, please call as soon as possible. Notice of cancellations 30 days or more in advance of trip date, receive a full refund. Cancellations received with more than 5 business days and up to 30 days from booked trip will be charged a \$30.00 processing fee. **There are NO refunds issued for cancellations received within 5 business days of booked trip or for any missed classes.** Rescheduling is possible based on availability, with at least 5 business days notice prior to your trip date. **There are no rescheduled trips within 5 business days of the trip date.** A Self Guided Tour may be requested as an alternative.

All workshops run rain or shine. QBG reserves the right to postpone workshops and programs, and will work with classes to reschedule.

Arrival at the Garden

The Garden's main entrance is located at 43-50 Main Street and our Parking Garden is located at 42-80 Croomelin Street (see map for details). Buses may drop off students in the Parking Garden bus loop, but we are not able to accommodate bus parking. Car parking is available for a fee.

Visit us at www.queensbotanical.org/education

Instructors will meet classes scheduled for Workshops and Guided Tours in the Parking Garden. If you are here for a tour, please make arrangements with your bus driver to return immediately to the Garden in case of sudden shower or weather change. There are no indoor facilities for tour groups.

Restrooms are located in the Visitor & Administration Building. Please allow time before and after your program for restroom use.

QBG does not have an indoor lunch facility or any food for purchase on site. Weather permitting, groups are welcome to picnic in the Arboretum. If you plan to picnic, it is recommended that you have an alternate plan in case of inclement weather.



Queens Botanical Garden

Late Arrival Policy

Classes arriving late will receive a shortened program that will end at the originally scheduled time.

Groups arriving more than 30 minutes late for their scheduled program will be cancelled. Refunds are not available.

Garden Rules

Visitor safety is our top priority. Teachers and chaperones are responsible for students and should supervise classes at all times. Children must stay with their group and are expected to observe all Garden regulations. They may leave the group only with chaperone supervision. **During class time, we ask that all cell phones be turned off.** The following are strictly prohibited: radios, ball playing, picking flowers or plants, climbing trees, stepping or walking in garden beds, feeding wildlife, littering.



Guide to Workshops 2010/2011

WORKSHOP	PreK & K	1 & 2	3, 4 & 5	FEES
As the Worm Turns (page 4)			☼	\$130 + \$50 worm bin set up (optional)
Biomes and Plant Communities (page 4)			☼	\$130 + \$8 per student (\$130 + \$5 per student for Propagation Activity)
City Plants (page 4)			☼	\$150
Color Me Autumn (page 4) (Available in late September to early November)	☼	☼	☼	\$150
Dr. George Washington Carver (page 4)	☼	☼	☼	\$150
Good Guys and Bad Guys (page 5)			☼	\$150
Growing Together (page 5)			☼	\$150
Honeybees (page 5)	☼	☼	☼	\$150
Katydid for Kids (page 5)	☼	☼		\$150
Making Scents of Plants (page 5)	☼	☼	☼	\$130 + \$6 per student
Plants & Animals (page 5)	☼	☼	☼	\$150
Plants in the Lives of the First Americans (page 5) (Available in October, late March through May)			☼	\$180
Plants We Eat! (page 6)	☼	☼	☼	\$150
Trees & Me (page 6)	☼	☼	☼	\$150



Special Needs — QBG's education staff is noted for their unique sensitivity, and we take great pride in delivering specially tailored experiences for any learning level. Many of QBG's educational programs can be adapted to meet the needs of special education classes, and we will work with you to support the particular academic goals of your class.

Workshops at QBG fill quickly for October, April, May, and June. Early registration is recommended. Spring is our busiest time — registrations received after April 1 may be subject to peak pricing.

Call for details.

Winter is a wonderful season to visit QBG, and we offer special pricing for workshops in January and February — call for details.

SPECIAL WORKSHOPS FOR GRADES 6, 7 & 8**FEEES****Energy: You Move Me** (page 6)

Sessions 1 & 2

\$300

Session 3

\$150

Water: Round & Round It Goes (page 6)

A three-session program

\$450

SPECIAL PROGRAMS**FEEES****Guided Tours** (page 7)

\$125

Self Guided Tours (page 7)

\$30 + \$5 per field guide (optional)

Register at queensbotanical.org/education/selfguidedtours**Off Site Workshop**

Call for pricing

ADDED VALUE!**OBG Field Guide**

\$5 each (discounted rates

for bulk purchases)



Most OBG workshops can be customized for grades Pre-K through 12, and off-site workshops are available on a limited basis. Contact us at 718-886-3800 ext. 230 for details.

Queens Botanical Garden is an urban oasis where people, plants and cultures are celebrated through inspiring gardens, innovative educational programs and demonstrations of environmental stewardship.

The Queens Botanical Garden is located on property owned in full by the City of New York, and its operation is made possible in part by public funds provided through the New York City Department of Cultural Affairs. The New York City Council and The New York State Office of Parks, Recreation and Historic Preservation provide a portion of the Garden's general operating funds. The Queens Borough President and Queens elected representatives in the City Council and State Legislature provide leadership funding. Corporations, foundations, and individuals provide additional support.

The Aviation Development Council has provided leadership support for Bee Garden education workshops and programs.

The Louis Calder Foundation has provided leadership support for the development of the new environmental education curricula "Water: Round and Round It Goes" and "Energy: You Move Me."

The Consolidated Edison Company of New York has provided leadership support for education programs and workshops through the Con Ed Curriculum.

The Edith Glick Shoolman Children's Foundation has provided leadership support for education programs and workshops through the Edith Glick Shoolman Curriculum for Young Learners.

HSBC Bank USA, N.A. has provided leadership support for the HSBC Children's Garden.

The Dr. Robert C. & Tina Sohn Foundation has provided leadership support for Herb Garden education workshops and programs.

Additional support for school programs is provided by:

Frank J. Antun Foundation
Max and Victoria Dreyfus Foundation
The Hearst Foundations
The Walter Kaner Children's Foundation
MarketPlace Development
The Michael Tuch Foundation
Laura B. Vogler Foundation

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Visit us at www.queensbotanical.org/education



Queens Botanical Garden

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718.886.3800 www.queensbotanical.org

Off-Peak Pricing Available
— see page **10**

New QBG Field Guide for Self Guided Tours
— see page **11**

Please visit our website for more information on Events
and Family Programs at www.queensbotanical.org



Scan to see
What's in Bloom...

...and a feature on
Birds in the Garden



Nonprofit Org.
U.S. Postage Paid
Permit #433
Flushing NY