APEC
ALLEY POND
ENVIRONMENTAL CENTER

224-65 76th Avenue | Oakland Gardens, NY 11364

(718) 229-4000 | www.alleypond.org

APEC's 6—12 Grades Class Visit
2 hour program:

Topic of Choice:

Introduction to APEC & lesson on topic of choice

Guided Interpretative Walk:

Hike along APEC's nature trails.

STEM-based Activity:

Hands-on learning experience tied to chosen topic.

Our instructor-led field trip programs are grade level appropriate and correlate to New York City and New York State standards.

Program Fees:

Fee: $400 per class *
Parent Fee: $5 per parent
Teachers & staff are free.

* Water Quality Testing incurs a $15 materials fee per class.

* Only one class permitted to attend per day. Maximum class size is 35 students.

The reservation made represents the maximum number students you may bring.

Class visits are by reservation only.

To schedule a trip or for further information, call APEC at 718-229-4000 ext. 202.

A $50 non-refundable deposit for each class attending is required at the time of booking.

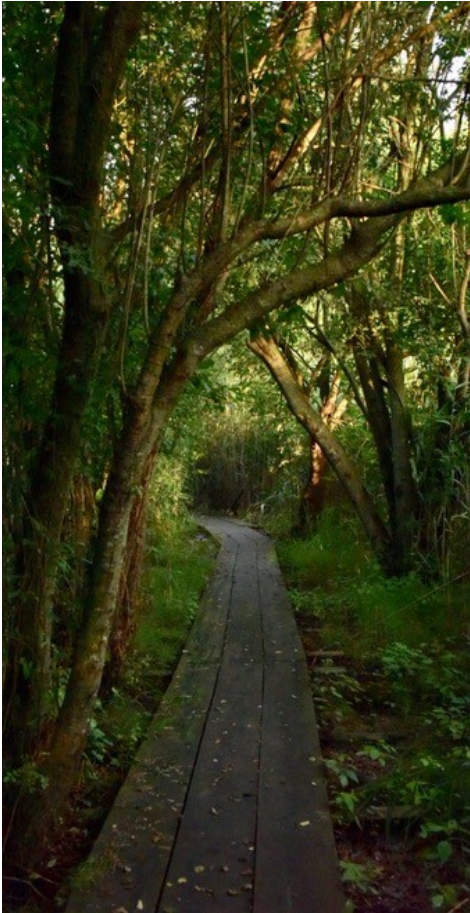### Alley Pond Environmental Center

224-65 76th Avenue • Oakland Gardens, NY 11364

(718) 229—4000 • contact@alleypond.com • www.alleypond.org

Support provided by NYCDCA, NYCDPR, Con Edison & National Grid Foundation

APEC's 6-12th Grade Program Topics:

1. **Animal Adaptations:** *Recommended for grades 6-8* Explore structural, behavioral, & physiological adaptations of vertebrate animals: mammals, birds, reptiles, and amphibians. Observe and touch live animals during our animal observation session.

Activity: Animal observation with worksheet

2. **Climate Change:** What factors cause climate change to occur? What impact have humans had on our environment? Learn the ecological mechanisms that shape climate change from the greenhouse gas effect to positive feedback loops in warming seas. Examine the various consequences of climate change on the ecosystem and human health.

Activity: Carbon sequestration in trees

3. **Forest Ecology:** Experience the eastern deciduous forest right here in Queens. Explore the layers of a forest and energy transfer of its inhabitants. Learn about the anatomy of a tree and the functions of its parts.

Activities: Ecosystem observation worksheet, tree ID with dichotomous keys, live animal demonstration

4. **Geology of Long Island and NYC:** *Recommended for grades 8-12* Explore the composition of the glacial terminal moraines, important geologic features, and metamorphic rock formations that make up Long Island and the 5 boroughs.

Activities: Fossil sorting and soil profile demonstration

5. **Pond Ecology:** Learn about the physical components, trophic relationships, energy flows, and chemical cycling of nutrients found in the pond ecosystem.

Activity options: Water quality testing** *or* ecosystem observation worksheet

6. **Water Cycles and Watersheds**: Investigate the steps of the water cycle and explore how water travels through a watershed system. Focus on the chemical, biological, and physical properties of water, as well as the social implications of water use as we explore NYC's water systems.

Activity options: Water quality testing** *or* watershed demonstration

7. **Wetland Ecology**: Compare the complex ecology of various wetland ecosystems. Learn about the diversity of organisms that inhabit these ecologically threatened areas.
Available only Fall 2019.

Activity options: Water quality testing** *or* ecosystem observation worksheet

Day of Trip Guidelines

- Full program, including nature walk, is held rain or shine. Please dress appropriately — ie. boots in colder, wetter months and insect repellent in the spring.

- Leave children on bus and have one teacher register and pay for your group at the Front Desk.

- If your bus is running late please call APEC at 718-229-4000 and we will try to accommodate you.

- APEC does not supply hand sanitizer or paper towels.

- Keep in mind, there are no indoor lunch facilities available. There are outdoor picnic tables for your class, should you choose to enjoy lunch on the premises.

- Building is handicap accessible