Grades 3-8: Using protocols to facilitate productive discourse in the science classroom

Type of PL: 2-Day Institute
Dates: April 13 and 14, 2020
Time: 9:00am-3:00pm
Cost: $500.00 per person (includes breakfast and resources, lunch on your own)
Who should attend: All Science Educators Grades 3-8, including classroom teachers, school administrators and curriculum specialists.
Session Facilitators: Tina Glover, AMNH; Catherine Calogero, Lead Teacher, Highbridge Green School

In this session, facilitators will support teachers with developing structured opportunities for student talk. The National Science Foundation (NSF) states that engaging students in science talk makes student thinking public and available for discussion, clarifies ideas, deepens reasoning, and helps students relate their thinking to others' ideas. Integrating the use of National School Reform Faculty and other protocols into science discourse will support and manage small and large group discussions, provide structure and transparent mechanisms for groups working on complex tasks, guide students engaging in higher level discourse, and build road maps to deeper community engagement. Building these systems into your classrooms can lead to increased opportunities for student voices and shared learning.

Learn more: amnh.org/AMNHPSI

Grades 3-8: Be Ambitious: Using the Ambitious Science Teaching Framework to put Student Ideas at the Center of Learning

Type of PL: 2-Day Institute
Dates: April 14 and 15, 2020
Time: 9:00am-3:00pm
Cost: $500.00 per person (includes breakfast and resources, lunch on your own)
Who should attend: All Science Educators Grades 3-8, classroom teachers, school administrators and curriculum specialists.
Session Facilitators: Ali Irwin, AMNH, Colleen Owen; AMNH, Laura Fontanills Lead Teacher, Salk School of Science

Are you interested in learning specific ways in which you can elicit and utilize the ideas of ALL your students to make their learning relevant and impactful? Do you want to know how to support learners in making sense of their own learning over time? Join us for these exciting sessions where we will dive into the Ambitious Science Teaching (AST) framework, a powerful resource that demonstrates how to support three dimensional learning. AST will support you in developing a common language to describe and reflect upon your teaching practice so that you can build upon the great work you are already doing in your classroom. During these sessions you will use a combination of video-analysis, immersive learning experiences in the museum, and discussion to consider new ways of using students’ thinking to drive your instruction. Participants who complete this two-day institute will receive a copy of the Ambitious Science Teaching book, as well as support in using the vast array of resources available on their website.

Learn more: amnh.org/AMNHPSI
Grades 6-12: Utilizing Museum resources in the Culturally Responsive-Sustaining STEM Classroom

Type of PL: 2-Day Institute  
Dates: April 16 and 17, 2020  
Time: 9:00am-3:00pm  
Cost: $500.00 per person (includes breakfast and resources, lunch on your own)  
Who should attend: All Science Educators Grades 6-12, including Teachers, Special Education Teachers and Coaches.

Session Facilitators: Dr. Elaine Howes, AMNH; Jamie Wallace, AMNH; Lead Teachers: Caity Tully, James Baldwin School; Maya Pincus, Bushwick Leaders High School for Academic Excellence; Arthur W. Funk, Celia Cruz Bronx High School of Music; Susan Bullock Sylvester, Innovation Diploma Plus High School

In these sessions teacher leaders will share and model readily adaptable culturally responsive activities that they have used in their own science classrooms. Participants will consider their own cultural perspectives using the metaphor of a culture tree and then share ideas through a research-based classroom discussion strategy that supports students in thinking critically and speaking openly. Session leaders will describe how they modified this strategy for use in their classrooms, and what they learned from their collaborative analysis through the lens of culturally responsive education. Participants will consider ways in which they can modify their own instruction and curriculum to be more culturally responsive, and network with other participants to share and revise their newly developed strategies.

Learn more: amnh.org/AMNHPSI

Grades 9-12: Putting the Museum to the Test: Linking Museum Learning and Earth Science Regents Preparation

Type of PL: 2-Day Institute  
Dates: April 16 and 17, 2020  
Time: 9:00am-3:00pm  
Cost: $500.00 per person (includes breakfast and resources, lunch on your own)  
Who should attend: All Earth Science Educators Grades 8-12, including Teachers, Special Education Teachers and Coaches.

Session Facilitators: Dr. Cristina Trowbridge, AMNH; Lead Teachers: Nakita VanBiene, Hudson High School of Learning Technologies, Aline Gjelaj, Dual Language Middle School

Are you looking for new and creative ways to prepare your students for the Earth Science Regents exam? The American Museum of Natural History provides a vast array of learning resources to support students’ to engage and connect classroom content and Regents questions. These sessions will support teachers’ capacity to engage students and strengthen their performance on the Regents exam through use of Museum resources, as well as synthesizing core Earth Science concepts. Participants will explore exhibits and halls as portals into topics in astronomy and earth history.

Learn more: amnh.org/AMNHPSI

The Gottesman Center for Science Teaching and Learning is pleased to announce the newly designed Professional Studies Institute for classroom teachers, school administrators and curriculum specialists who are committed to creating robust science classrooms. Featuring co-facilitation between a museum educator and a NYC lead teacher, dedicated planning time, exhibition visits and alignment to NGSS and resources.