

POLICIES

Qualifications

Applicants who meet the following criteria will be given priority though everyone is encouraged to apply:

- Primarily teach grades three, four or five
 - Part of a team of two to four teachers from their school
 - Secure a signed letter of support from their principal
 - Teach in San Francisco
 - Minimum of two years teaching experience
 - Full time teacher
 - Regular classroom teacher*
 - Committed to being a classroom teacher for 3 more years
- * A regular teacher refers to a teacher who teaches one class

To get an even distribution of teachers by grade, the Institute will attempt to recruit at least:

- 25% Third Grade Teachers
- 25% Fourth Grade Teachers
- 25% Fifth Grade Teachers

Stipend

To receive a stipend teachers must:

- Attend 90% (or 70 hours per year) of the required hours to receive full the stipend (\$2000)
 - Attend 50% - 89% (38 - 69 hours) to receive 50% of the stipend (\$1000)*
 - No stipend if attend less than 50% of the required hours *
- *Teachers can make up hours in other Academy workshops if approved by TISS staff

Graduate Credits

To receive 3 graduate credits from San Francisco State University per year teachers must:

- Participate in a minimum of 90% of the required course hours
- Design, implement, and post a teacher generated lesson on the California Academy of Science website
- Pay SFSU \$100 per credit (\$300 total)

SUMMER SESSIONS

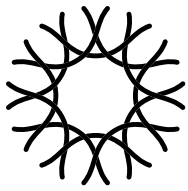
During two summers, teachers will participate in intensive two-week (56 hours) summer sessions.

Summer Session I

- Theme: Energy and Green Buildings

Summer Session II

- Theme: Water, Waste, and Food



TEACHER GENERATED LESSONS:

Participants in the Institute are required to design and teach a lesson (year 1) and a unit (year 2) that incorporates a sustainability theme into a science lesson. The lessons must be submitted in the standard Academy format for posting on the Academy's website.

Teacher Generated Lesson Year I

- Teachers are required to develop and teach one science lesson that includes a focus on sustainability
- Lesson will be observed by Academy staff
- Lesson plans will be posted on Academy website

Teacher Generated Lesson Year II

- Teachers are required to develop and teach an interdisciplinary science unit that includes a minimum of three lessons
- Unit must have a sustainability theme and address at least one CA science standard and one standard from another discipline
- The unit must incorporate the use of a student science journal and must have a student assessment
- Academy staff will observe a least one of the lessons
- The unit plan and the corresponding lesson plans will be posted on the Academy website

PROFESSIONAL DEVELOPMENT

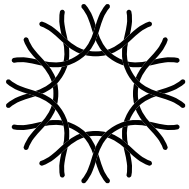
During the academic year, the Institute will offer a variety of professional development options for participants as indicated in the proposed selections for year I and year II. Each teacher is required to complete 21 credit hours of professional development each year and can tailor their curriculum to their interests and needs after including the required courses.

Professional Development School Year I (Proposed)

Teachers are required to complete 21 hours of professional development selected from the menu below.

* Events in **BOLD** are required

Field Trips	Safari West Geothermal Power Plant Jasper Ridge Biological Preserve
Current Events Discussion	Once every other month teachers will read a scientific article and come to the Academy to discuss the article
Other	FOSS kit workshops Workshops to support the development of teacher generated lessons
Lectures	One lecture and dinner by nationally renown speaker
Cohort Seminars	In January, the cohort will all meet to share lessons learned from the semester
Sketching	Sketching workshop offered by Lorie Topinka and Jack Laws
Academy Workshops	BioForum, Rainforest, Skulls, Owl Pellets, Coral Reef, Ants, Evolution Workshops and more.



Professional Development School Year II (Proposed)

Teachers are required to complete 21 hours of professional development selected from the menu below.

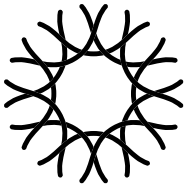
* Events in **BOLD** are required

Field Trips	Beach clean-up Transfer Station Wind Farm
Current Events Discussion	Once every other month teachers will read a scientific article and come to the Academy to discuss the article.
Other	FOSS Kit workshops Workshops to support the development of teacher generated lessons
Lectures	One lecture and dinner by nationally renown speaker
Cohort Seminars	In January, the cohort will all meet to share lessons learned from the semester
Overnight	Overnight field trip to the Trinity Alps or Pepperwood Preserve
Academy workshops	BioForum, Rainforest, Skulls, Owl Pellets, Coral Reef, Ants, Evolution Work-shops, and more.

MENTORSHIP AND CLASSROOM OBSERVATIONS

The mentorship program is a unique and important part of the Institute. The purpose of the mentorship is to provide teachers with the resources and support in their schools. Mentors from the Academy assist teachers with the development and implementation of science and sustainability curriculum in their classrooms.

Mentorship and Observation Plan School Year I	Academy staff will visit teachers in the classroom once a month. The role of the mentor in school year I is to: <ul style="list-style-type: none"> Assist teachers with their teacher generated lesson Assist teachers with integrating sustainability topics into their classrooms Observe teaching practices Help teachers implement FOSS kits and other adopted science curriculum Help teachers understand and implement science
Mentorship and Observation Plan School Year II	Academy staff will visit teachers once a semester. During the second year mentors will, additionally, use the web, e-mail, and phone to communicate with teachers. The role of the mentor in school year II is to: <ul style="list-style-type: none"> Assist teachers with their teacher generated unit Assist teachers with integrating sustainability topics into their classrooms Observe teaching practices Help teachers implement FOSS kits and other adopted science curriculum Help teachers understand and implement science



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Teacher Institute on Science and Sustainability

INFORMATION FOR PRINCIPALS

Mentorship and Classroom Observations

Academy staff will mentor teachers for the duration of the Institute. Academy staff will be in the classroom of each participating teacher once a month during school year I. During school year II Academy staff will observe teachers once per semester.

Substitute Days

Teachers in the Academy will participate in one professional development day per school year that will require them to be pulled from school. SFUSD will provide funding for all SFUSD teachers. Non-SFUSD Principals will need to provide one sub per teacher per school year.

Teacher/Principal Open House

Every year in May the Academy will host an open house at the Academy for all Institute teachers and their families and principals.