



Greetings 4th and 5th Grade Teachers and Administrators,

We are excited to welcome you and your students to the second year of the Enhanced Museum Visits for Students Program (also known as the Rock Program) at the California Academy of Sciences. Generously funded by Arthur and Toni Rembe Rock, this program is open to 4th and 5th grade classes within San Francisco County lines.

FREE Enhanced Museum Visits for Students

Each of the following free features are built into the field trip program to support and enrich the museum experience for teachers, students and families:

- **Bus transportation**, if desired, for school groups not within walking distance
- **Teacher workshops** that highlight exhibit themes and educational resources (required)
- **Educational programs** designed to enhance the museum visit fieldtrip for your students
- **A student pass** entitling each student unlimited free admission through August 31, 2010
- **A one-time free family pass** for each student's family valid through August 31, 2010

Program Updates

Based on your valuable feedback from last year we have added more to our programs.

- **Buddy Teacher Slots:** You and a buddy teacher may now sign up for the same program on the same day! Due to space limitations, buddy teachers who sign up for Lab & Classroom Programs will have staggered program times. See the following page for details.
- **More Teacher Workshops:** We have expanded our offerings including more topics, hands-on activities and resources such as our Classroom Kits.
- **Family Exploration Guide:** We have developed a guide that complements the student pass and free family pass by providing families with information to plan their visit, and activities to learn about science and exhibits.

At this time, we are unable to offer lunches or student t-shirts due to budgeting constraints.

How to Register

Registrations for this program are on a first-come, first serve basis starting August 17, 2009 at 7am. To reserve your space call: 1-800-794-7576, then press 0. Tell the operator you are signing up for the "Rock Program."

We look forward to seeing you soon!

Lindzy Bivings

Manager of Enhanced Museum Visits for Students
therockprogram@calacademy.org

Enhanced Museum Visits for Students

Fieldtrip Programs 2009-2010

Read through the options below and choose one Field trip Program and one Corresponding Teacher Workshop. Workshops are to be completed prior to the fieldtrip. For descriptions of our teacher workshops please visit www.calacademy.org/teachers.

Student Science Lab Program Times: Mondays 9:30am or 11:30am

These programs are approximately 60 minutes long and take place in the Academy's Education Center.

- Microscopes & Entomology:** Get up close and personal investigating the smaller things in life with microscopes. In this lab students gain valuable hands-on experience learning important entomology research skills that will assist them in identifying and observing local ant species. **Grade 4 CSCS:** Life Sciences 3a-3d; **Grade 5 CSCS:** Life Sciences 6a, 6g

Corresponding Teacher Workshops:

- Lab Skills Workshop: Microscopes Oct. 6, 4-6pm
- Lab Skills Workshop: Experimental Design Nov. 3, 4-6pm
- Ants Collecting Kit: Dec. 10, 4-6pm
- Lab Skills Workshop: Kitchen Chemistry Feb. 2, 4-6pm
- Ants Collecting Kit: April 22, 4-6pm

- California Geology:** Hands on comparisons of different rocks combined with mapping activities give students an introduction to geologic processes and resources in California and how these rich resources have shaped California's economy and development since the time of the Gold Rush. **Grade 4 CSCS:** Earth Sciences: 4a-4b, 5a-c, 6b, 6e

Corresponding Teacher Workshops:

- Lab Skills Workshop: Microscopes Oct. 6, 4-6pm
- Lab Skills Workshop: Experimental Design Nov. 3, 4-6pm
- Geology Classroom Kit: Dec. 5, 8:30am-12:30am
- Lab Skills Workshop: Kitchen Chemistry Feb. 2, 4-6pm
- Geology Classroom Kit: Mar. 20, 8:30am-12:30am

Student Planetarium Program Times: Wednesdays 9:30am

These programs are approximately 40 minutes long and take place in the Academy's Morrison Planetarium.

- A Tour of Our Solar System** embarks on a trip from planet Earth, navigating into orbit around our star, the Sun. En route students compare gaseous and rocky planets to moons, asteroids, and stars, ultimately examining what makes a planet a planet (or not) through the eyes of a scientist. **Grade 5 CSCS:** Earth Sciences: 5.a- 5.c, Investigation & Experimentation: 6.a, Physical Sciences: 1.g- 1.h

Corresponding Teacher Workshops:

- Astronomy Workshop: Sept. 15, 4-6pm
- Exhibits Workshop: Green Buildings & the Living Roof: Oct. 14, 4-6pm
- Astronomy Workshop: Oct. 20, 4-6pm
- Astronomy Workshop: Jan. 19, 4-6pm
- Astronomy Workshop: Feb. 16, 4-6pm
- Exhibits Workshop: Green Buildings & the Living Roof: Feb. 10, 4-6pm

Museum Explorations & Classroom Kits Program Times: Tuesdays 9:30am

These programs last approximately 25 minutes and are taught in conjunction with our Classroom Kits.

- Coral Reef:** Begin fieldtrip preparation at your school by using our classroom kit and learning about these fascinating animals. This program connects student pre-visit knowledge with how plants and water quality affect coral survival. Classes then partake in a self-guided exhibit scavenger hunt. **Grade 4 CSCS:** Life Sciences 2a, 3a-3d **Grade 5 CSCS:** Life Sciences 2e-2g; Earth Sciences 3a

Corresponding Teacher Workshops: Teachers are required to participate in a Kit Workshop if they have not already done so in past years.

- Coral Reef Classroom Kit: Sept. 26, 8:30am-12:30pm
- Exhibits Workshop: Philippine Coral Reef and California Coast: Nov. 4, 4-6pm
- Coral Reef Classroom Kit: Jan. 30, 8:30am-12:30pm
- Exhibits Workshop: Philippine Coral Reef and California Coast: Mar. 10, 4-6pm

- Rainforest:** Start learning about the rainforest at your school using a series of hands-on activities in the classroom kit. This program connects students' pre-visit knowledge of rainforest biodiversity and conservation with observations that can be made in the Academy's 4 storey tropical rainforest. **Grade 4 CSCS:** Life Sciences 2b, 3a-3c; Earth Sciences 5a-5c; Inv. & Exp. 6a-6f; Visual Arts 5.2 **Grade 5 CSCS:** Life Sciences: 5e; Earth Sciences: 3b-3d, 4b; Inv. & Exp. 6h

Corresponding Teacher Workshops: Teachers are required to participate in a Kit Workshop if they have not already done so in previous years.

- Rainforest Classroom Kit: Sept. 19, 8:30am-12:30am
- Exhibits Workshop: Water Planet & Rainforests of the World: Dec. 9, 4-6pm
- Rainforest Classroom Kit: Jan. 23, 8:30am-12:30am
- Exhibits Workshop: Water Planet & Rainforests of the World: Apr. 14, 4-6pm

Academy Classroom Collections Program Times: Thursdays 9:30am or 11:30am

These programs are approximately 60 minutes long and take place in the Academy's Education Center.

- African Mammals:** Journey to explore the diverse biomes of Africa and the specially adapted mammals who live there. Students practice field methods with our skulls collection, learn to sketch and identify different animals as well as learn the story of the endangered Hunter's Hartebeest. **Grade 4 CSCS:** Life Sciences: 2a, 2b, 3a, 3b; Investigation & Experimentation: 6a-c, 6e **Grade 5 CSCS:** Inv. & Exp. 6a, 6g

Corresponding Teacher Workshops:

- Exhibits Workshop: African Hall & Islands of Evolution: Sept. 9, 4-6pm
- Skulls Classroom Kit: October 8, 4-6pm
- Exhibits Workshop: African Hall & Islands of Evolution: Jan. 13, 4-6pm
- Skulls Classroom Kit: Feb. 4, 4-6pm

- Ocean Shells:** Travel back in time and observe mollusk populations and changes over several decades. Students dig through sand, collect specimens, then sort, tally and indentify the shells. Learn how the world's oceans and its shelled inhabitants are changing due to climate change and ocean acidification. **Grade 4 CSCS:** Life Sciences 3a- 3b, 6a, 6c, 6e **Grade 5 CSCS:** Life Sciences 1h, Inv. & Exp.: 6a, 6d, 6g, 6h

Corresponding Teacher Workshops:

- Exhibits Workshop: Philippine Coral Reef & California Coast: Nov. 4, 4-6pm
- Water Issues: Feb. 25, 4-6pm
- Exhibits Workshop: Philippine Coral Reef & California Coast: March 10, 4-6pm

Registration Worksheet

An individual registration must be made for each class. The Rock Program is available on the days in orange. Please identify at least 3 dates you have available for fieldtrips in case your first choice is taken. The Rock Program runs September 21st, 2009- May 27th, 2010.

To make a reservation call 1-800-794-7576, then press 0. Tell the operator you are signing up for the "Rock Program." Registrations are made on a first-come, first serve basis starting August 17, 2009.

School Name: _____ Teacher Name: _____

Grade(s): 4th or 5th # of Students (35 max): _____ # of Adults (1/8 min, 1/4max): _____

School Address (San Francisco Only): _____

Phone Number(s): _____ Email Address: _____

2009-2010 Program Calendar

September '09						
Su	M	Tu	W	Th	F	Sa
		1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30			

October '09						
Su	M	Tu	W	Th	F	Sa
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25	26	27	28	29	30	31

November '09						
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22	23	24	25	26	27	28
29	30					

December '09						
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27	28	29	30	31		

January '10						
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17	18	19	20	21	22	23
24	25	26	27	28	29	30
31						

February '10						
Su	M	Tu	W	Th	F	Sa
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14	15	16	17	18	19	20
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28						

March '10						
Su	M	Tu	W	Th	F	Sa
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14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30	31			

April '10						
Su	M	Tu	W	Th	F	Sa
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18	19	20	21	22	23	24
25	26	27	28	29	30	

May '10						
Su	M	Tu	W	Th	F	Sa
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2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23	24	25	26	27	28	29
30	31					