

Science Exploration Group Catalogue 2011-2012

	K	1	2	3	4	5	6	Day	Time	# ea mo.	Place
Creepy Crawlies	x	x	x					Wed.	3:00-4:00	1	K yard
Introduction to Plants	x	x	x	x				Mon.	3:00-4:00	1	Lunch Area
A Tour of the Solar System	x	x	x	x				Fri.	3:15-5:15	2	Library
Flight Science	x	x	x	x	x	x	x	S or S	TBD	1 or <	Varies
How Things Work				x	x	x	x	Fri.	3:15-4:15	1	MPR
Dentistry				x	x	x	x	Wed.	3:00-4:00	1	Café. +
Creating Sun Clocks					x	x	x	Fri.	3:00-4:30	1	Café. +
Native Plants						x	x	Thurs.	3:00-4:30	1	Café. +
Life Science & Medicine							x	Mon.	4:20-5:30	1	Hospital
6 th Grade Science Lab							x	Fri.	3:00-4:00	1	Café.
TOTAL OFFERED	4	4	4	5	5	5	7				

PCY SCIENCE EXPLORATION GROUP CATALOG For 2011-2012

To register, first contact those who are leading the section to be sure that it is what you expect. If you still wish to register, follow the instructions on the registration form at the end of this catalogue.

Make checks payable to "PCY PTA". No cash or credit cards, please.

Please send registrations by email to:

Pam Raymer-Lea – pamraymerlea@aol.com

You will receive a confirmation and instructions on delivering your check. If you do not receive your confirmation within a week, call Pam at 818 952-5590 or 323 449-6566.

Each class will have a parent medical release list which you must sign at or before the first class meeting.

Do not print your registration form.

Sections with a student limit will go in the order received.

Electronic delays will not cause you to loose your place in the class roster.

Each section can use one or more parent who is willing to help out. Please indicate your interest in helping on the registration form.

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Creepy Crawlies - \$15

Students will have the opportunity to discover the world of bugs, reptiles, amphibians, and marine life. We will focus on a different animal each month and learn about their habitat, body parts, and their unique purpose in our world. We will learn this through books, interactive art projects, and hikes on our local trails. Creepy Crawlies will include real life animals, which will include caterpillars becoming butterflies, larvae becoming beetles and other "guest" animals. We will also arrange for guest speakers to come and bring their knowledge and expertise to share such as snakes, lizards, frogs, etc. We will complete the year with an animal presentation from "Reptacular Animals" providing us the opportunity to see "up close" snakes, tarantulas, tortoises and more (this will require a \$5 donation from each student in the group).

- K – 2nd grades
- Max 25 kids (three parent volunteers needed at each meeting)
- Meeting monthly on Wednesdays 3 :00 – 4:00
- Kindergarten Playground

JENNA GAUSMAN - jgausman@hr-connections.net

Jenna is a career counselor who works at Santa Monica College advising students in majors, career, and college selection. She has over 14 years experience in counseling students with science majors and scientific careers. With two boys, she has learned to love all things that crawl and slither. She is passionate about "learning" being interactive and hands-on. Her purpose is to instill a sense of curiosity and respect in the students for understanding how our "creepy crawlies" are a key part to our habitat and ecosystem.

Introduction to Plants - \$15

A basic introduction to plants, their parts, and how they mature. Although meetings will be in the lunch area, there will be field trips to local ecosystems. Children will collect and press plants to make a book of what they learned about.

- K - 3rd grades
- Max 10 kids – if parents volunteer, more children may register
- Meeting every month on Mondays, 3:00 – 4:00
- PCY Lunch Area and local ecosystems

LORI SILVERMAN – lori@lesilverman.com

Biography unavailable

MELISSA ROGAN – melissarogan@charter.net

Melissa Rogan is a gardener, crafter, and mother. She has taught Imagination Station and crafty kids classes and loves to watch kids discover the world. She has a b.a. in communication from the University of Colorado and has passed the California CSET for general science and biology/life science.

A Tour of the Solar System - \$15

A basic introduction to the Solar System, including the formation and evolution of our Sun, the planets, and their moons. NASA missions to the planets, including the fundamental science and technology involved in their discoveries, will also be covered.

- K - 3rd grades
- Max 20 kids
- Meeting every two weeks on Fridays, 3:15 - 5:15
- PCY Library

ROY BUTLER - roy.butler@jpl.nasa.gov

Roy is a father, math enthusiast, and computer engineer, with an intense interest in what matters in life and why. He has a BA in Philosophy from UC Irvine and is working toward a Master's in Space Systems Engineering from Stevens' Institute of Technology. He has worked at JPL for over 10 years and is currently a member of the Mars Reconnaissance Orbiter mission, performing flight control, spacecraft simulation, and ground data systems responsibilities.

Flight Science (airplanes and rockets) - \$15

We'll learn about airplanes and visit local aviation and space facilities. Events from last year included visiting the Chino Air Museum, touring JPL, visiting the Goodyear Blimp and XCOR Aerospace, freefalling in an indoor skydiving facility, having paper airplane races, etc. For next year expect some of the same activities, with an emphasis on space flight!

- K - 6th grades.
- Requires parent participation (no drop offs). Siblings are welcome.
- Our section will meet mostly on weekends but will vary as events present themselves.

SUSANNA AND DOUG GRIFFITH - 818-952-1780 –susannagriffith@gmail.com

Doug majored in aerospace engineering and was a US Marine Corps SuperCobra pilot for many years. Now he practices aviation law. He has a private pilot license and flies for fun.

How Things Work - \$15

Have you ever wondered how the following things work: rockets, electric lights, computers, movie (film) cameras and film, combustion engines, light bulb, glass blowing, the wonderful world of bugs, why there are earthquakes and how earthquakes work, and much more? The students will choose the things they are most interested in and even get to propose other topics. If we can answer it, we will teach it!

- 3rd - 6th grades
- Max. 20 kids
- Meeting monthly on Fridays 3:15 – 4:15

- PCY Cafeteria or Library

CHARLES GARNER - charles.e.garner@jpl.nasa.gov

Biography unavailable

PAM RAYMER-LEA – pamraymerlea@aol.com

Pam is a jewelry maker, former filmmaker, and stay-at-home mom who, although not a scientist, has an intense interest in discovering the nature of the universe and how it works. She has a BFA in Studio Art, a MFA in Film Production, and an MEd in Guidance and Counseling with College Administration. She enjoys having fun and finding hands-on ways to help kids understand confusing and complex concepts. Although she has taught film production at the college level, Pam is currently an Art Docent at PCY, teaching about famous artists, their lives, and works. She is also the founder of the PCY Science Club.

Dentistry - \$15

The course will include tooth anatomy, diseases of the mouth, oral hygiene, and show & tell of dental instruments.

- Grades 3-6
- Meeting monthly on Wednesdays 3:00 - 4:00
- 5-6 sessions
- We will possibly have a fill trip to my office but primarily it will be at school.

MIKE SAGARIAN - 818 952-2126 - robinasg@yahoo.com

Biography unavailable

Researching and Creating Two Sun Clocks - \$15

SunClock on the PCY campus somewhere.

Numbers are put on the ground in such a position so that a student standing in the middle of them will cast a shadow showing the correct time of day! It can be as simple as chalk on the blacktop, a bit more permanent with painted numbers, or even a new hardscape feature.

We will make sunclock "gift" to the school that all students can use and enjoy, and hopefully the teachers, too.

The session would involve measurement and art, as well as some talk about the cultural aspects of keeping time with the sun.

- 4th – 6th grades (3rd grade by audition and maturity level)
- Maximum of 25 kids
- Once a Month on Fridays – 3 to 4:30 (different day than 6th grade Science Lab)
- PCY cafeteria

LESLIE LOWES - 626-791-8940 - lloves@sbcglobal.net

At JPL for almost 30 years, Leslie has worked in both science and education, and is a firm believer in the power of an engaging, emotional experience to spark kids' interest in science, technology, engineering, and math. Leslie is a member of the NASA "90-90 Club", having flown over both poles of the earth in a DC-9 while collecting data on the chemistry of the earth's ozone "holes", and she served as a ground data specialist for several Space Shuttle flights to study the atmosphere. Her education specialty is in relationships with museums, youth groups, and after school programs, and she set up the national partnership between Girl Scouts of the USA and NASA. She sang in Pasadena Pro Musica for 8 years and plays the piano.

Native Plants - \$15

Students will learn the basics of growing and taking care of various types of plants using sustainable organic practices. We will study seed and plant structure, growing needs, chemistry and propagation techniques. Each gardener will have at least one container they will plant then take home and take care of during the year as a laboratory experiment. If possible, we will "adopt" a section of the school plantings and nurture it. By the end of the year students will know how to grow food and flower plants in their home garden.

- 5th & 6th grades.
- This class will be limited to 8 fifth and sixth graders who are truly interested in learning about plants and gardening and enjoy working outside.
- Thursdays after school for 90 minutes – once a month except September and June.
- PCY cafeteria.

MRS. ROSE HARRIS – 818 790-8291 – rose.m.harris@att.net

Mrs. Harris retired after 18 years as the science department lab tech at LCHS. She was a chemistry teacher at another school for a number of years and has taught GATE classes in both La Crescenta and at LCE. Mrs. Harris has a background in geology, oceanography, astronomy and biology. She spends most of her time now working in her garden.

Life Science and Medicine - \$15

Students concentrate on selected medical topics which the students will choose. There will be presentations by physicians and other health professionals. Last year the group covered microbiology, bacteriology, DNA, radiology, the brain, radiation, world health, global warming, plastic surgery and a general health fair. There will be several tours of medical facilities at the hospital.

- 6th grade, parent volunteers welcome
- Max of 15 kids.
- Meeting monthly on Mondays 4:20-5:30, tentatively.
- We will meet at the Huntington Hospital outpatient pavilion.

DR. RUTH WILLIAMSON McNULTY – DrRuthW@aol.com

Ruth is a radiation oncologist at Huntington Hospital, and medical director of both Radiation Oncology and The Breast Center there. She specializes in cancers of the breast and skin. Ruth is a graduate of USC medical school and has two kids, Lisa (14), and Tommy (11).

6th Grade Science Lab - \$15

This is a hands-on experimental lab that will deepen the student's understanding of 6th grade science concepts through experimental demonstrations and projects. We will be exploring the concepts of plate tectonics and Earth's structure, energy and natural resources.

- 6th grade
- 8 students per adult assistant - parent volunteers welcome
- Fridays after school for 60 minutes – once a month (different day than Sun Clocks)
- PCY cafeteria

DR. EVA PERAL – 626 808-9778 - evamperal@gmail.com

Dr. Peral is a radar system engineer at JPL currently working on the SWOT mission, which is focused on providing a better understanding of the world's oceans and its terrestrial surface waters. She has a background in electronics, optics and applied physics.

Please continue to the registration form below.

Copy and paste this form (not the whole catalogue) into a new word document, fill it out, and send by email to: Pam Raymer-Lea – pamraymerlea@aol.com

You will receive a confirmation and instructions on delivering your check (made out to PCY PTA). If you do not receive your confirmation within a week, call Pam at 818 952-5590 or 323 449-6566.

Each class will have a parent medical release which you must sign at or before the first class meeting.

Do not print your registration form.

Sections with a student limit will go in the order received.

Each section can use one or more parent who is willing to help out. Please indicate your interest in helping on the registration form.

One child, one form. Please indicate all the classes in which your child wishes to enroll.

PCY SCIENCE EXPLORATION GROUP '11 – '12
New Student Registration & Emergency Form

Student's Name _____ Grade _____
Last Name First Name

Address _____

City _____ Zip _____

Father/Guardian _____

Home Phone _____

Cell or Other Phone _____

E-Mail Address _____

Mother/Guardian _____

Home Phone _____

Cell or Other Phone _____

E-Mail Address _____

Health Insurance No ___ Yes ___

If yes, Name of Insurance Company _____

Policy Number _____

Health Problems (Please List)

Allergies No ___ Yes ___ List specific item(s) student is allergic to:

Describe allergic reaction and treatment:

Current Medication(s) No ___ Yes ___ If yes, Name of Medications(s)

Area of Interest Please circle **one** choice and return this form along with the appropriate **registration fee** (checks payable to: PCY PTA) to: Pam Raymer-Lea, 822 Parkman Dr., La Canada, CA 91011 (Leaving your registration in the PCY office will only delay your registration.)

Creepy Crawlies - \$15

Dentistry - \$15

Introduction to Plants - \$15

Creating Sun Clocks - \$15

A Tour of the Solar System - \$15

Native Plants - \$15

Flight Science - \$15

Life Science & Medicine - \$15

How Things Work - \$15

6th Grade Science Lab - \$15

Are You Willing to Help?

No ___ Yes ___

Only My Child's Section ___

Any Section That Needs Help ___

Thank You!