

# Spectrum of Science

925.820.2415

www.spectrumofscience.com

Dynamic  
HANDS-ON

Fairlands Elementary  
Thursdays 3 to 4pm  
1st—5th grades

## Science Labs

We are offering eight new labs and a shark dissection.

National and State standards encourage hands on experiments and testing. Spectrum of Science Foundation encourages the children to ask questions, make a hypothesis, experiment, test and draw conclusions. These are fun, active labs!! Science is all around us!

**LET THE LEARNING CONTINUE!!**



**SIMPLE MACHINES MAKE THE WORLD GO ROUND!** Are simple machines an actual invention or simply something learned from exploring & testing the world around us? Each week find fun in physics using crazy & cool pieces plus hammers & nails! Join in a siege of the castle! Build a mini-catapult and fire away! This is junkyard design at its best! Can you build a new invention out of an old one?



**CHEMISTRY CONCEPTS:** Are you a skeptical chemist? Let's clarify chemistry with ALL NEW happening experiment! Solutions, chemical properties, chemical reactions, states of matter a new way & molecules galore! Create an gooey solid! Join the ultimate bubble fest!

**MARINE SCIENCE MANIA:** Enter the world where little sunlight penetrates! Will your submarine submerge? Where are the whales? Survey symbiotic relationships of the deep! Why are these sea inhabitants hiding in the fort of a sponge? Research a fish cleaning station - find who is using it!

**DYNAMIC DRAGONS AND DINOSAURS:** Become a paleobiologist! Probe the prehistoric world of dinosaurs & see what remains today! Examine dinosaur remnants of the past then delve into modern dragons! They do exist! Puzzle the periods of the Mesozoic Era!! Science has never been so much fun!

**GEOLOGY: MORE THAN MUD & STONES!** Rock with geology adventures & shake with a quake! Scratch the surface of our planet & investigate what is happening under the earth's crust! Using your own volcano investigate lahars & laminar flow! Check out liquefaction. Explore the magnetic flip!



**SPACE: THE UNREACHABLE FRONTIER:** This is the YEAR OF THE SOLAR SYSTEM! Join our inner planetary research seeking encounters in space and check out fly by candidates in the Kuiper Belt! Where did Pluto go? There are New Horizons to cover! What is planet "X"? NASA & Space Science unlock doors to the future!

**SINGULAR SCIENCE – TECHNOLOGY OF THE FUTURE!** There is a whole new world of technology out there! Discover how it works! Shimmer & shine with fiber optics! Erect a loopy structure! There is much more science in your crystal ball!

**THERE IS AN IDENTITY CRISIS SCIENCE!** Calling all science sleuths! Investigate the extraordinary! This is **not** what you think! "May" may not be "may"! Who or what is a mean lean fighting machine? This is the epicenter of science!

**SHARK INVESTIGATION:** Children requested that we repeat this lab! In these two weeks they will begin to understand that sharks may be at the top of their food chain & thus they are a significant indicator species of marine ecosystems as a whole. They will study the basic internal structures of a shark as well as observe its specialized features. How do the lateral line, the Ampullae of Lorenzini & the nictitating membrane assist the pelagic animal? This is a way to demonstrate conservation & preservation of the natural world!



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**SIMPLE MACHINES!**

DATES: 9/8, 9/15, 9/22, 9/29

LAB FEE \$ 96

(includes \$18 Facility Fee &  
\$22 Supply Fee)

**CHEMISTRY CONCEPTS!**

DATES: 10/6, 10/13, 10/20, 10/27

LAB FEE \$ 90

(includes \$18 Facility Fee &  
\$16 Supply Fee)

**MARINE SCIENCE MANIA!**

DATES: 11/3, 12/1, 12/8, 12/15

LAB FEE \$ 90

(includes \$18 Facility Fee &  
\$16 Supply Fee)

**DYNAMIC DRAGONS!**

DATES: 12/22, 1/12, 1/19, 1/26

LAB FEE \$ 90

(includes \$18 Facility Fee &  
\$16 Supply Fee)

**GEOLOGY! MUD & STONES!**

DATES: 2/2, 2/9, 2/16, 2/23

LAB FEE \$ 90

(includes \$18 Facility Fee &  
\$16 Supply Fee)

**SPACE! UNREACHABLE FRONTIER!**

DATES: 3/1, 3/8\*, 3/15, 3/22

LAB FEE \$ 90

(includes \$18 Facility Fee &  
\$16 Supply Fee)

**SINGULAR SCIENCE!**

DATES: 3/29, 4/5, 4/19, 4/26

LAB FEE \$ 90

(includes \$18 Facility Fee &  
\$16 Supply Fee)

**IDENTITY CRISIS SCIENCE**

DATES: 5/3, 5/10, 5/17

LAB FEE \$ 72

(includes \$14 Facility Fee &  
\$16 Supply Fee)

**SHARK INVESTIGATION!**

DATES: 5/24, 5/31

LAB FEE \$ 62

(includes \$9 Facility Fee &  
\$25 Supply Fee)

\* Time Change: Class will meet at  
early time due to minimum day!



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## Science Labs

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HANDS-ON

Fairlands Elementary  
Thursdays 3 to 4pm  
1st—5th grades

Pay by individual topics OR SAVE \$5 off each lab when you register for at least 4 topics in 1 payment OR SAVE 10% off SOSF FEES\* & receive a FREE SOSF shirt if register for 6 or more labs!!

Complete descriptions available ~ visit [www.spectrumofscience.com](http://www.spectrumofscience.com) 925.820.2415

LET NO FUTURE SCIENTIST  
BE LEFT BEHIND!!

### DYNAMIC HANDS ON SCIENCE LABS!! DATES & TOPICS ON THE BACK

SPECTRUM OF SCIENCE FOUNDATION After School Labs @ Fairlands Elementary

Child's Name \_\_\_\_\_ Grade \_\_\_\_\_

Phone Number \_\_\_\_\_

Emergency Contact & Phone \_\_\_\_\_

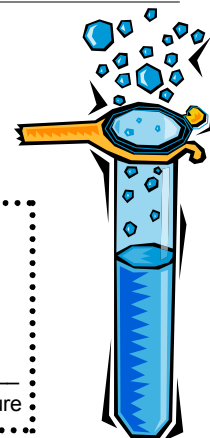
Email for Confirmation \_\_\_\_\_

Signature \_\_\_\_\_

After Lab, please escort my child to \_\_\_\_\_ onsite daycare.

My child has **permission / does not** have permission to leave class without adult supervision.

Signature \_\_\_\_\_



Prices valid until 12/31/11	Thursday
SIMPLE MACHINES!	\$96
CHEMISTRY CONCEPTS!	\$90
MARINE SCIENCE MANIA!	\$90
DYNAMIC DRAGONS!	\$90
GEOLOGY!	\$90
SPACE!	\$90
SINGULAR SCIENCE!	\$90
IDENTITY CRISIS SCIENCE	\$72
SHARK INVESTIGATION!	\$62
All Labs includes the 10% <b>Discount off SOSF Fees only!</b>	\$723 (33 weeks)

**Please return this form** with a check payable to SPECTRUM OF SCIENCE FOUNDATION & mail to Spectrum of Science, 317 Barton Ct. Danville, CA 94526 **at least 8 days prior to start** of Labs. Late registrations will be accepted only if space is available.

**REGISTRATION AND CANCELLATION POLICY**  
All participants will be enrolled on a first-come, first served basis. If a lab is full, registrants will be notified and placed on a wait list. A written notice of cancellation for any program is required four weeks prior to the session start date in order to receive a refund; there is a \$25 cancellation fee. If a cancellation is made between two and four weeks prior to the session start date; there is a \$25 cancellation fee and there is no refund on the supply fee. Spectrum of Science Foundation will not refund payments for cancellations received less than 8 business days before the session start date.

Call 925-820-2415 for questions  
Phone registration available 925.820.2415

► **Confirmation of enrollment will be emailed at time of enrollment.** ◀

925.820.2415 AmyBeth@spectrumofscience.com  
[www.spectrumofscience.com](http://www.spectrumofscience.com)

No Discounts given on facility fees or supply fees  
5/2011 NO Supply Fee Refunds will be given!!