

BRING SCIENCE TO LIFE!

A SCHMAHL SCIENCE WORKSHOP PRESENTS "SCIENCE EXPLORATIONS"



AFTER-SCHOOL HANDS-ON SCIENCE CLUB
For 2nd - 5th grade Parkview Elementary School students.

Do your kids like to take things apart or put things together? Do they like to ask questions, investigate and try to find answers? Come join SSW as we embark on a series of hands-on science exploration workshops. We offer science workshops that have been kid-tested, parent and teacher approved.

DATES: Thursdays after school, starting Jan 7th. **Please sign up by Dec 16**. Pre-registration is required.

TIME: 2:55-3:55 pm. Children must arrive and be picked up punctually. **PLACE:** Cafeteria

COST: \$72/4-week session

INSTRUCTOR: All Workshops are conducted by fully trained and reliable SSW facilitators.

Session 3: Artistic Science (January 7, 14, 21, 28)

- **Soap Bubble Art:** I really like blowing bubbles but the worst part is when they break. Here's a way to capture the shape of the bubbles after they pop.
- **A Garden To Dye For:** Students learn the basics of dyeing with natural dyes. Intro to physics of light and color, chemistry of dyeing, and biology of plant dyes.
- **Dirt, Art and Cave Paintings:** Have you ever looked at pictures of prehistoric paintings? You have? Great! Now, have you ever thought about trying your hand at some "cave" paintings? Prehistoric paint was created by mixing dirt, ground up rocks and animal fat. Students will create their own "prehistoric paint".
- **Chalk Clocks:** The hourglass is sometimes referred to as a sand clock or a sandglass. Students build a chalk clock, and will test their instruments and fine-tune them to measure the correct length of time.

Session 4: Inventions (February 4, 11, 25, March 4)

- **Homemade Loudspeakers:** Students build homemade loudspeakers using ring magnets and plastic cups. While constructing the loudspeakers, students will learn about electromagnetism, the interaction of magnetic fields, and the mechanical amplification of sound.
- **Mousetrap Cars:** Many products exist that can be improved. Indeed, technological innovation is often the result of improving on the works of others. Automotive engineers have carefully improved such areas as engine design and aerodynamics to achieve better performance and gas mileage. In this workshop, the power source for a small toy car is a mousetrap. It is a simple idea with lots of room for improvement. Your Challenge - You are to redesign a mousetrap car so that it will travel the greatest distance possible.
- **Rollercoasters:** Students work in groups to make a roller coaster with split foam tubes, marbles and tape. They discover amazing ways to get as many energy conversions as possible. This relates to potential and kinetic energy, friction, and inertia.
- **Pencil Electrolysis:** With this experiment a simple device is built which enables us to split water into its two parts: oxygen and hydrogen.

For questions please contact Belinda Lowe-Schmahl, 281-7595 or bel@schmahlsience.org

Please visit our website at www.schmahlsience.org

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Child's Name _____ Grade _____

Child's Name _____ Grade 2009-10 _____

Child's Name _____ Grade 2009-10 _____

Parent Name _____ Email _____
(For registration confirmation)

Address _____

City _____ Zip _____

Home Phone _____ Emergency Phone _____

Any Medical issues for child(ren) _____

Workshop Series	Student Name(s)	Amount Due
Series 1: Artistic Science Fee \$72		
Series 2: Inventions Fee \$72		
	TOTAL DUE	

- **Mail registration to:** A Schmahl Science Workshop, 171 Branham Lane, Ste. 10, PMB 223, San Jose, CA 95136.
- **Payment is due with registration. No refunds. No substitutions.** Send check or money order made out to A Schmahl Science Workshop. Credit Card Payments: MasterCard, Visa, American Express (Circle One)
Card Number _____ Exp. Date _____ CID _____
Signature _____ Date _____
- Check here to be added to our mailing list of future workshops _____.
- Check here for information via email _____.
- SSW may take workshop photos for use in SSW's publicity. Names and locations will not be published. Check here if we have your permission to take photos of your children during our workshop(s) _____.

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