



Spectrum of Science Foundation

SPECTRUM OF SCIENCE

2017 STEM SUMMER CAMPS

Wagner Ranch Elementary School

SITE: 350 Camino Pablo, Orinda, CA 94563



SPACE SCIENCE: Find out what it will be like to be in the **Earth's shadow** on 8/21/17 as the path of **totality** covers Earth from Oregon to South Carolina! All comets make noises - listen carefully! Space is not empty. **Cryptovolcanos** have been discovered! These labs investigate a galaxy of possibilities as humans leave Earth & "travel" beyond the **Kuiper** belt!

6/12/17 to 6/16/17

AM: 8:30 to 11:30 \$176

PM: 12:00 to 3:00 \$176

I Want it ALL: 8:30 to 3:00 \$375



FAST PHYSICS & QUIRKY INVENTIONS!: Learn interesting science and **technology** facts by experimenting with different materials that react in surprising ways. Explore **fundamental blocks** & build a house of sticks & bricks! Could you build a house of ice? Protect it from a **Creeper!** Take home your own Snap Circuit & explore **electromagnetism!**

6/19/17 to 6/23/17

AM: 8:30 to 11:30 \$180

PM: 12:00 to 3:00 \$180

I Want it ALL: 8:30 to 3:00 \$383



COMMON CHEMISTRY: Have any icy day! Great experiments with ice include answering the question: How does ink **attach to aluminum cans**? Participate in a **drippy drop** contest! Poke a hole in my sandwich! **Stretch** it out! What is **slippery** & slimy? Separate print from paper! Measure & **experiment** - prove that chemistry is fun!

6/26/17 to 6/30/17

AM: 8:30 to 11:30 \$176

PM: 12:00 to 3:00 \$176

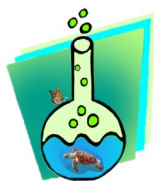
I Want it ALL: 8:30 to 3:00 \$375

Grades 1st—5th Jr. Interns 7th –9th

REGISTER: www.spectrumofscience.com

925-820-2415

HAVE FUN & LET THE LEARNING CONTINUE!!



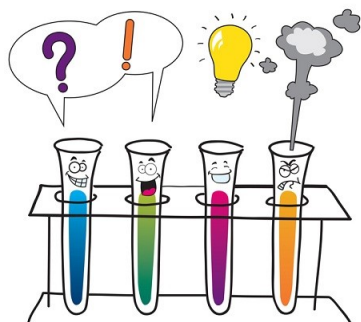
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CHEMISTRY 101-103: CREDIBLE CHEMISTRY! Chemistry is mixing **stuff!** What is that stuff? **Formulate** bedazzled potions! Test & observe chemical reactions in **snacks!** What is a **titration** reaction? Does it **move** by itself? Yes, this is chemistry! Can we change it?? Will your special **goo glitter?** Can we make a lot of mess with **explosions??** Yes, is the answer!! Come and become a curious chemist!!

7/17/17 to 7/21/17

I Want it ALL: 8:30 to 3:00 \$375

AM: 8:30 to 11:30 \$176

PM: 12:00 to 3:00 \$176



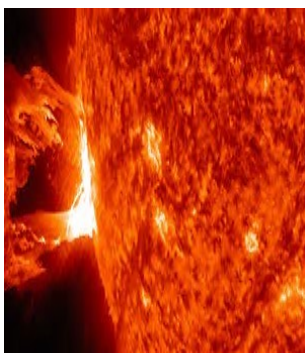
PHYSICS 201-203: PHYSICS LIKE YOU HAVE NEVER DONE BEFORE!! Remember the scientific method? Imagine - **experiment** - design it - make it! **Crumble** it, charge it, rip it, snip it, drip it, drop it! Can you **duplicate** it? Release your inner scientific imagination! And have fun! Bend the rules & create with curves! Join in this mish mash of **destruct & reconstruct!** Will it become a **robot** or a **space explorer?** Make it move or light up! Observe it, smash it & build a “what’s It”! This is elementary **physics** in action!

7/24/17 to 7/28/17

I Want it ALL: 8:30 to 3:00 \$383

AM: 8:30 to 11:30 \$180

PM: 12:00 to 3:00 \$180



SPACE 101:-103 TO INFINITY AND BEYOND! What is most **dangerous** in our universe? Use your Jedi mind powers & engineer a light saber! Participate in the SOSF “race in space” - did you follow directions? Visualize a **worm hole** - what is the point of no return? NASA SOHO & missions to Mercury will be explored! Will investigate **coronal mass ejections** & how these vast explosions affect Earthlings! Study the universe! What is in the solar system? **Space probes** are extending our knowledge of the outer regions! Where are **Goldilocks planets?** The red planet has many secrets which are unfolding! **Atmospheric science** is included!

7/31/17 to 8/4/17

I Want it ALL: 8:30 to 3:00 \$375

AM: 8:30 to 11:30 \$176

PM: 12:00 to 3:00 \$176

Grades Jr. Interns

4th - 7th 9th—11th

Note: this is NOT a college prep course. It is designed to intrigue and encourage children with an interest and a curiosity in science! These labs continue to build & reinforce a foundation in science. Support the students who will become tomorrow’s scientists and more!

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HAVE FUN & LET THE LEARNING CONTINUE!!