



Great Information Jewels You Don't Want To Miss!

Treasures for Teachers

TREASURE CHEST NEWSLETTER

Please **RECYCLE** this newsletter by passing it on to a friend.

Activity of the Month

Underwater Fireworks



The Fourth of July is almost here. It is a time to celebrate with fireworks. Have your students try this safe explosively fun experiment. They will also:

- Conduct a **careful investigation**
- **Make predictions**
- Sharpen their **observation skills**

See the last page of this NEWSLETTER for attached handout.

Upcoming Workshops

Looking for something to brighten your teaching this summer?

The Science & Technology Teacher Resource Center offers **FREE** science workshops to teachers! Join us for a few hours and add some new ideas to your science repertoire. Workshops are offered at our site or **they may be scheduled at a time or place more convenient to you.** Call **619-255-2912** to schedule a time. We have received a generous grant that makes these workshops possible!



Science Take-Home Bags

What can you do with a convention bag?
Attend this workshop and find out!!
We will provide the bags and ideas.
You will provide some imagination!!
This 2 hour workshop will be held at the Resource Center from 9-11 am on June 19, July 11, Aug 21, and from 7-9 pm on July 2, 2008.

Kid-Friendly Report Design

Looking for a more interesting way for your students to present science reports?
This workshop will introduce you to a fun, kid-friendly report design.

This 3 hour workshop will be held at the Resource Center from 6-9 pm on June 18 and 9-noon on July 7 & 16, and Aug 15, 2008.



July 1, 2008

What's In This Issue?

Activity of the Month
Underwater Fireworks

Upcoming Workshops

- Science Take-Home Bags
- Kid Friendly Report Design
- Introduction to Internet Resource Materials
- Project Learning Tree
- Project WET
- Project WILD

What's In Stock?

Free classroom materials!

Spider's Prey

Web Site of the Month-
Steve Spangler Science

Things To Know About
Education Alley



Come and see our extensive collection of science and technology curriculum that you can download for **FREE!**

Introduction to Internet Resource Materials

The internet is loaded with FREE supplementary science materials. Find out where they are located in this hands-on workshop.

This 3 hour workshop will be held at the Resource Center from 6-9 pm on June 4 and from 9-noon on June 20, July 10, & Aug 19, 2008.



Environmental Education

These award winning programs provide more than just an introduction to environmental ed. They are balanced programs that teach how to think, not what to think. Each program is aligned to the California State Standards and teaches science concepts and skills in fun, collaborative ways. Don't miss out on these wonderful FREE workshops—sign up today!

Project Learning Tree



What do you do with a Tree Cookie? Discover activities to increase your students' awareness and knowledge of the world around them, as well as their place within it.

Attendees will be provided a FREE 470 page Environmental Education Activity Guide. This 6 hour workshop will be held at the Resource Center from 9am—3pm on Tuesday July 1, or Thursday July 17, or August 7, 2008.

Project WET

WET stands for Water Education for Teachers. Join us for an introduction to how water impacts our lives. Attendees of this 6 hour workshop will be provided with a FREE 500+ page curriculum & activity guide filled with games and activities to use with their classes.

This workshop will be held at the Resource Center from 9am to 3pm on July 3, or August 5, 2008.

Project WILD

This 6 hour workshop provides you with games and activities to use with your students that introduce them to how animal life fits into the environment. Attendees will receive a FREE 500+ page curriculum & activity guide. This workshop will be held at the Resource Center from 9am—3pm on July 14, or August 13, 2008.

What's In Stock?

This is the place for teachers to obtain **free** classroom materials.

**** NEW ****



- Come in and get a **Sea World Teacher Guide!** Seals, Sea Lions, & Walruses—grades 4-8
Water—grades K-3
Marine Ecology & Conservation—grades 4-8
Ocean Discovery for Early Learners—pre-K
Manatees—grades 4-8
"Manaties" in Spanish—grades K-8
- We also have **Sea World Information Booklets:**
Corals
Otter
Flamingos
Sea Turtles
- Come in and get **convention bags** to store your science units. Place all the materials for a unit in a bag and store on a shelf for organized retrieval. Next year everything you need to teach the unit will be together and you won't have to search for supplies.

Science & Technology Teacher Resource Center

Located at NTC Promenade (former Naval Training Center) in Point Loma, just off Rosecrans Street
2825 Dewey Road # 205
San Diego, California 92106



CALL 619-255-2912
for an appointment
to view the Center.

We can be reached at:
sfreeburn@csqf.org

Science is FUN

Two atoms are walking down the street.
Says one atom to the other, "Hey! I think I lost an electron!"
The other says, "Are you sure?"
"Yes, I'm positive!"

If you're not part of the solution, you're part of the precipitate!

WANTED
\$10,000 reward.
Schroedinger's Cat.
Dead or Alive

WANTED
Lord Kelvin
Fee for collection: Absolute zero

WANTED
Hydrogen and Oxygen Combined
(Not really, I just wanted to see your reaction...)

WANTED
Atoms
Fee for collection: No charge

WANTED
Leaky Valve
No pressure

WANTED
New web-based laboratory
Virtually unused

WANTED
Breath fresheners
Mint condition

Drop by to discover all of the wonderful FREE treasures available to take back to your

Spider's Prey

Web Site of the Month — Steve Spangler Science

www.stevespanglerscience.com/

"He's probably making some gadget ooze, bubble, fizz, bounce, smoke, or maybe he's creating a new idea to get another human being turned on to life's small wonders. . . He's been described as the guy who shoots potatoes, makes toilet paper fly, and mixes up a perfect batch of slime. But he may be best known for teaching millions of people how to turn an ordinary bottle of soda into an erupting geyser of fun. His now famous [Mentos Geyser Experiment](#) became an Internet sensation in September of 2005 . . . On the education side, Steve Spangler is nationally known as a teacher's teacher who shares his passion for learning in the classroom, on the platform, and through the airwaves." Steve's website is a playground for science teachers. He has a vast archive of science experiments with directions for you to use, video to see him doing the experiment, and an explanation of what is going on. The website also is home to his online store where you can purchase cool science stuff!

Visit www.stevespanglerscience.com/experiment/00000109 to see Steve's idea for celebrating the Fourth of July. "Mentos + Pop = Fun. Words cannot begin to describe the awesome eruption that is created from adding Mentos candies to a 2-liter bottle of soda. The eruption is enormous... and so is the learning if you consider the chemistry."

Things To Know About!

Science programs you don't want to miss.

Education Alley is coming to San Diego.

Take your class on the ultimate field trip.

This information is worth repeating from last month!!!

Don't miss this unique free educational opportunity happening right here in San Diego September 9 through 11. Registration is now open and fills quickly!

Go to www.aiaa.org/educationalley or call Sharon at 619-847-5518 for more information.



Want to know how to go to space? Demonstrations, presentations, special guests, hands on activities, and a few surprises will help students and teachers find the answer.

Want to know what you can be when you grow up? We will have some ideas from aerospace professionals, scientists, and other pioneers.

Most importantly, Education Alley is the place to learn and have FUN.

What happens at Education Alley?

Students have the amazing opportunity to meet the professionals in the exciting field of aerospace. NASA brings displays of things they are working on. Aerospace companies bring displays of their products. Special speakers and presenters talk about the work that they do. Education Alley is more than just listening or looking; it is also doing.

Students have the opportunity to do hands on activities. In the past they measured the height of things with a protractor, they froze flowers, they created craters, they used a solar cooker to toast a marshmallow, and they even ate marshmallows that they froze.



Questions, comments, or to add or remove yourself from the mailing list
email us at sfreeburn@csgf.org or call **619-255-2912**

"Every student can learn..just not on the same day or in the same way." ~ George Evans

Underwater Fireworks

The Fourth of July is almost here. It is a time to celebrate with fireworks. Have your students try this safe explosively fun experiment.



What You Need

- water
- vegetable oil
- food coloring
- tall clear plastic cups
- fork

Creating Underwater Fireworks

1. Fill a tall plastic cup almost to the top with room-temperature water.
2. Pour 1-2 tablespoons of oil into the other glass.
3. Add a couple of drops of food coloring of two different colors.
4. Break up the food coloring drops into tiny droplets by briefly stirring the oil and food coloring mixture with a fork.
5. What do you think will happen when you pour the oil and coloring mixture into the tall glass?
6. Now watch as the food coloring will slowly sink in the water. Each droplet will expand outward as it falls creating - Underwater Fireworks!.

How It Works

Food coloring does not dissolve in oil but it does dissolve in water. By stirring the food coloring in the oil the food coloring is broken up into tiny droplets. Some of the tiny droplets mix to create a new third color. The oil floats on the water because it is less dense than water. The colored droplets sink to the bottom of the oil then they mix with the water. The color diffuses outward as the heavier colored drop falls to the bottom.

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