



January 2009

What's In This Issue?

Activity of the Month
Writing Formulas

Science Talk— Jan 22

Upcoming Workshops

- Project Learning Tree
- Project WET
- Project WILD
- Kid Friendly Report Design
- Introduction to Internet Resource Materials
- Family Math or Science Night
- Science Take-Home Bags
- Welcome to the Solar System

What's In Stock?

Free classroom materials for your classroom

Things To Know About

- Orbiting Carbon Observatory Launch Conference
- California Climate Champions 2009!

Spider's Prey

Web Site of the Month:
Afterschool Activities & How To Videos



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

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

Writing Formulas



This simple activity introduces to students the importance of accurately measuring and recording data. Students will mix different colored waters together to get a special shade of color. They will write down each step to create a formula. Then they will exchange formulas with another member of their group and see if the formula can be recreated.

See the last page of this NEWSLETTER for attached activity.

Do you find teaching science difficult?

Would you appreciate some ideas to make teaching science more interesting?

Do you secretly dread preparing and teaching science lessons?

Are you in need of some **collaboration** with other like minded teachers?

Join us on Thursday, January 22 at 5:30pm at the Science & Technology Teacher Resource Center for

Science Talk

Science Talk is a new monthly meeting of San Diego County Elementary Teachers who would like to exchange ideas about content, activities, . . . in teaching science.

Upcoming

IT'S TIME FOR NEW IDEAS !

MARK your calendar then **JOIN** us for **WORKSHOPS** to make this year **GREAT!**

Come today, use it tomorrow!



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 **619-847-5518** to schedule a time or to sign up for a workshop.

We have received a generous grant that makes these workshops possible!

Environmental Education Workshops

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! 619-847-5518



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-3pm on **February 21, 2009**.



What do you do with a Tree Cookie?

Discover activities to increase your students' awareness and knowledge of the environment, 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 **March 7, 2009**.



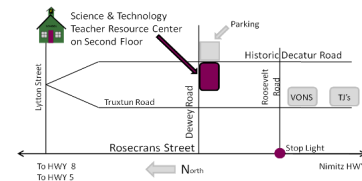
This 6 hour workshop provides you with games and activities to use with your students that introduce them to how animal life fits into the environment.

Attendees will receive a FREE 500+ page curriculum & activity guide.

This workshop will be held at the Resource Center from 9am-3pm on **January 31, 2009**.

Science & Technology Teacher Resource Center

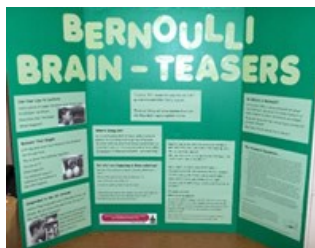
Located at NTC Promenade (former Naval Training Center) in Point Loma, just off Rosecrans Street
2825 Dewey Road # 205 San Diego, California 92106



CALL 619-847-5518 for an appointment to view the Center.

We can be reached at: sfreeburn@sgeei.org

More Workshops!



Family Math or Science Night

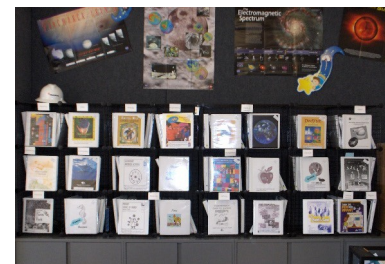
Create excitement and get parents involved with your school. Attend this workshop to find out **HOW** to organize this event at your school. We will discuss **WHAT** to include and **WHERE** to get ideas to make the event a success.

This 2 hour workshop will be held at the Resource Center from 5:30-8:30 pm on **March 12, 2009**.



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 5:30-7:30 pm on **March 19, 2009**.



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 5:30-8:30 pm on **February 11, 2009**.

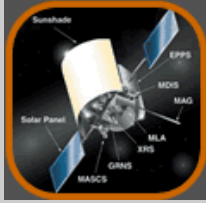
Kid-Friendly Report Design

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 5:30-8:30 pm on **January 28, 2009**.

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

MESSINGER Welcome to the Solar System



Learn how to incorporate NASA's MESSENGER program materials into your classroom's study of the Solar System during this hands-on, collaborative, interactive presentation. Make a scale model of the Solar System. Make a model showing how craters are made. Try an activity to share with your students that shows how the sun emits UV light and what simple things will protect them from the UV light.

This 3 hour workshop will be presented by NASA MESSENGER Educator Fellow, Sharon Freeburn, at the Resource Center from 5:30-8:30 pm on **February 18, 2009**.



What's In Stock?

We have **tote bags** from conventions that were held in San Diego. Tote bags are a wonderful way to store science units. Drop by and pick some up to help organize your science materials.

Science is FUN

Einstein's Theory of Junkfood
E = MC (Donald's)

Einstein's Theory of Rappers
E = MC (Hammer)

Einstein's Theory of Theatre
E = MC (Beth)

Einstein's Theory of Tessellating Patterns
E = MC (Escher)

Einstein's Theory of Pastoral Farming
E = MC (Donald)

Einstein's theory of raining computers
E = MC (intosh)

Opportunity is missed by most people because it is dressed in overalls and looks like work."

*~Thomas Edison
American inventor*

Things To Know About!

Science programs you don't want to miss.

Orbiting Carbon Observatory Launch Conference:
Feb. 21-23, 2009



Join NASA and the Endeavour Center at Vandenberg Air Force Base in California for the Taurus XL launch of the Orbiting Carbon Observatory. OCO will provide space-based observations of atmospheric carbon dioxide, the principal human-initiated driver of climate change. This event is a unique opportunity for educators to learn about Earth, atmospheric and rocket science. Participants will receive a teacher's guide, a classroom poster and a Mission CD for classroom use. The launch conference will be held at the Allan Hancock College's Lompoc Valley Center in Lompoc, Calif., Feb. 21-23, 2009. The registration deadline is **Feb. 13, 2009**. To learn more about the OCO Launch conference, visit

<http://endeavours.org/sec/>. Please e-mail any questions about this conference to Ms. Moksha Badarayan at director@endeavours.org. For more information about the OCO mission, visit <http://oco.jpl.nasa.gov/>

California Climate Champions 2009!

In partnership with the British Council, the California Air Resources Board is once again sponsoring a competition to identify California Climate Champions. This program will engage young people in **grades 9-12** as communicators who will help to influence and educate their peers, as well as the general public, on the urgency of climate change. Find out more at the program website at: <http://coolcalifornia.org/climatechampions> Entries are due Jan. 19, 2009. Apply online at <http://coolcalifornia.org/climatechampions> Download the Competition Flyer at: http://coolcalifornia.org/climate_hm.html

This is a wonderful opportunity for young people to show leadership and commitment for one of the most pressing issues of our time. We hope you will encourage any qualified students that you know to participate!

For more information: Please contact us at climatechampions@arb.ca.gov or call Annalisa Schilla at 916-322-8514



Spider's Prey

Web Sites of the Month

AFTERSCHOOL ACTIVITIES AND HOW-TO VIDEOS

<http://www.exploratorium.edu/afterschool/activities>

Educators visiting this site will learn different after-school activities through digital videos, concept maps, links to science explanations, educator tips, and related activities. Educators can also find more science and math enrichment activities using resources from the Exploratorium's Digital Library (<http://nsdl.exploratorium.edu/>), one of the many collections from the National Science Digital Library (<http://nsdl.org/>).

Writing Formulas

Students mix different colored waters together to get a special shade of color. They write down each step to create a formula. Then they will exchange formulas with another member of their group and see if the formula can be recreated. The teacher needs to pre-mix solutions of colored water. In each plastic cup measure $\frac{1}{2}$ cup of water and mix in 6 drops of food coloring. Each group of students will need a cup of yellow, blue, and red.

Demonstrate how to mix the colored water and write down what you did.

2 drops of blue + 1 drop of yellow = very dark green

The mixture needs to be placed on the right hand side of the ice cube tray, starting at the top of the tray and going down. The children may mix any 2 colors with up to 6 drops of any one color.

Have the children rinse the dropper out in clear water if it touches anything.

After the mixture is made and recorded the head chemist should pass the formula and ice cube tray to the assistant chemist. The assistant should try to reproduce the formula next to the first by placing the drops in the top left of the ice cube tray.

Was the same color formed?

Materials



- Goggles
- Ice cube Trays
- Droppers or pipettes (one for each color)
- Paper towels
- Food coloring
- Cup of blue water
- Cup of yellow water
- Cup of red water
- Cup of clear water
- Craft sticks for stirring
- Newspaper to cover the work area

Part One

Step 1: Select a color. Carefully count drops into the top right well of the ice cube tray. Do not use more than 6 drops!

Write down how many drops of the color you used.

Step 2: Measure drops of another color of water and place the drops in the same well of the ice cube tray. Do not use more than 6 drops!

Write down how many drops of the new color you used.

Mix the colors with the craft stick if necessary.

Now, write down what color resulted from the mix.

Step 3: Have another member of your group follow the formula to reproduce the color that you made.

They should mix the colors in the top left well of the ice cube tray right next to the first mixture.

Was the same color formed?

Step 4: Repeat the process 2 or 3 more times.

Part Two

Step 1: Repeat the same process of counting drops and writing them down but now mix 3 different colors of water.

Don't use more than 6 drops of any one color.

Step 2: Have another member of your group follow the formula to reproduce the color that you made. Did the color match?

Step 3: You may continue the process until the instructor tells you your lab time is over.



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