



November 2009

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.

What's In This Issue?

Activity of the Month

Mixing Colors Almost by Magic

Upcoming Workshops

- The "E" in STEM Education
- Introduction to Internet Resource Materials
- Family Math or Science Night
- Science Take-Home Bags
- Kid-Friendly Report Design & Science Journals
- Project Learning Tree
- Project WET
- Project WILD

What's In Stock?

Free classroom materials for your classroom

Things To Know About

The DuPont Challenge

Spider's Prey

Web Sites of the Month:

- *Inquiry in Action: Investigating Matter Through Inquiry*

Activity of the Month—Mixing Colors Almost by Magic



This activity will help to sharpen your students'

- Observation skills
- Prediction skills
- Thinking

See the last page of this NEWSLETTER for attached activity.

Could you use some help with ideas on how to effectively teach science?



We provide FREE, Interactive, Hands-On, Collaborative Science Workshops!

We are HAPPY to come to your location to provide your faculty with any of our in-services.

The Science & Technology Teacher Resource Center offers FREE science workshops to all teachers—public and private! Join us for a few hours and add some new ideas to your science toolbox. All workshops are offered at The Science & Technology Teacher Resource Center at our new location on El Cajon Blvd or they may be scheduled at a time or place more convenient to you.

Call 619-847-5518



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

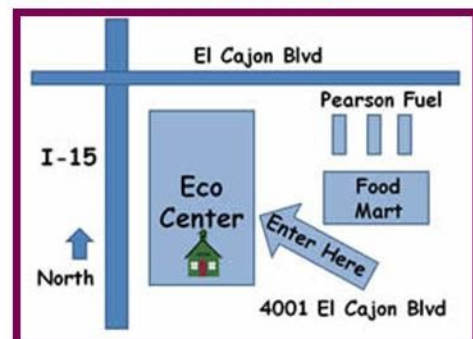


The new location is easy to find!
We are right off Interstate 15 at El Cajon Blvd.

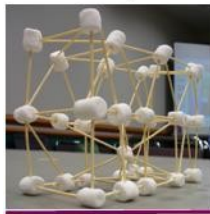
Call 619-847-5518 to make an appointment to visit our new location.

YES, We Moved!!

We are now co-located with the Eco Center at 4001 El Cajon Blvd, San Diego.



Do you teach the "E" in STEM Education?



Discover how to teach higher order thinking skills in an exciting, meaningful way by incorporating Engineering into your curriculum. Learn how easy it is to create design challenges that engage your students and require only simple materials. This **3 hour** workshop can be scheduled at your location.



Introduction to Internet Resource Materials

The internet is loaded with FREE supplementary science materials. Find out where they are located and how they will help you meet the California Science Standards in this hands-on workshop. This **3 hour** workshop will be held at the Resource Center from 5:30-8:30 pm on **November 5, 2009**.



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 can be scheduled at your location.



Science Take-Home Bags

How can a convention bag help you teach science? Attend this workshop and find out!! We will provide the bags and ideas. You will provide some imagination!! This **2 hour** workshop can be scheduled at your location.



Kid-Friendly Report Design & Science Journals

Looking for a more interesting way for your students to present science reports? Have you been wondering how to implement science journals into your curriculum? This workshop will introduce you to a fun, kid-friendly report design. This **3 hour** workshop can be scheduled at your location.

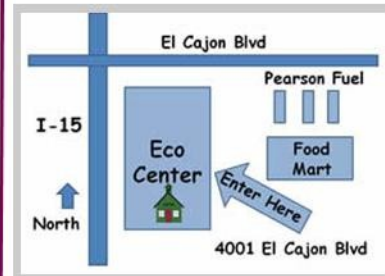
"The secret of joy in work is contained in one word -- excellence. To know how to do something well is to enjoy it."

—Pearl Buck, Pulitzer Prize-winning American writer

Science & Technology Teacher Resource Center



Co-located with the Eco Center at 4001 El Cajon Blvd, San Diego



CALL 619-847-5518
for an appointment
to view the Center.
We can be reached at:
sfreeburn@sgeei.org

Questions, comments, or to add or remove yourself from the mailing list email us at sfreeburn@sgeei.org or call **619-847-5518**



What's In Stock?

Discover all of the wonderful FREE treasures available to take back to your classroom!

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.

Things To Know About!

Science programs you don't want to miss.

The DuPont Challenge® BLASTS OFF!

Now in its 24th year, The DuPont Challenge® encourages students currently enrolled in grades 7 through 12 to get to the edge of science and discovery by writing about a technological or scientific development that captures their imagination.

The DuPont Challenge® offers both students and teachers more than \$25,000 in awards, plus... expenses-paid trip to THE WALT DISNEY WORLD® RESORT and Kennedy Space Center.

Mark Your Calendar Essay Submission Period Begins: **December 1, 2009**

For more information go to: <http://thechallenge.dupont.com/#>



Spider's Prey



Web Sites of the Month — *Inquiry in Action: Investigating Matter Through Inquiry*

The American Chemical Society has made *Inquiry in Action: Investigating Matter Through Inquiry* available on line as a FREE download! This "resource of guided, inquiry-based activities covers basic chemistry concepts along with the process of scientific

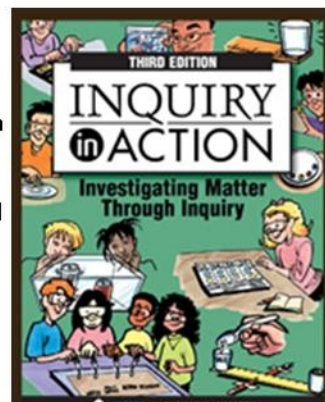
investigation. Written for elementary and middle school science classes, *Inquiry in Action* helps students ask scientific questions and investigate them, design experiments, record observations, draw conclusions and communicate their findings. It includes extensive science background for teachers, strategic questioning, teacher demonstrations, detailed procedures for experiments, student activities sheet, preparation notes, and assessments."

The entire book can be downloaded at:

www.inquiryinaction.org/Downloads/WholeBook.pdf

www.inquiryinaction.org/Downloads.html provides "the full text of the book, including additional activities, science background for teachers, and assessments for each unit. Permission is granted in advance for reproduction for classroom use." The website includes a listing of the California Science standards the materials meet as well as a wonderful collection of animations that help explain the chemistry involved in the activities.

Also available from the American Chemical Society are additional science activities found at : www.acs.org/ncw then click on the students & educators on the, and scroll down to Activities for Children. Here you will find a collection that includes: chemical and physical changes, characteristics of materials, solids, liquids & gas, motion & energy, planet earth, your body, art & toys, and what chemists do.



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 Science Standards and teaches science concepts and skills in fun, collaborative ways. **Attendees to each workshop will be provided a FREE 450+ page Environmental Education Guide of games & activities to enhance your teaching of water, wildlife, or the environment.**

Environmental Education Workshops



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. Project Learning Tree is as **6 hour** workshop can be scheduled at your location.



WET stands for Water Education for Teachers.

Join us for an introduction to how water impacts our lives. Learn how to teach water related concepts through hands on games and activities. This **6 hour** Project WET workshop can be scheduled at your location.



How much wildlife is in your school yard?

This **6 hour** Project WILD Workshop provides you with games and activities to use with your students that introduce them to how animal life fits into the environment. This workshop will be held at the Resource Center from 9am—3pm on **November 14, 2009.**

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

Mixing Colors Almost by Magic

Materials:



- Cotton swabs
- Dinner plate
- Dish detergent
- Food coloring - used by instructor only

Directions:

Step 1: Pour enough milk into dinner plate to cover the bottom.

Ask your instructor to add one drop of red, yellow, blue, and green food coloring close to the middle of the plate.

Step 2: Predict what will happen when a cotton swab touches the center of the milk.

Touch the swab to the center of the milk. Don't stir!

What happened?

Step 3: Place a drop of detergent on the end of the swab.

Predict what will happen when it touches the center of the milk.

Touch the milk with the swab. Don't stir!

What happened?

What color combinations do you observe?

Step 4: Place a drop of detergent on the end of another swab.

Predict what will happen when you place it in a new location on the plate.

Touch the swab to the milk.

What do you observe?



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