



November 2009

What's In This Issue?

Activity of the Month

WHAT DID SANTA BRING?

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

Kids in Micro-g

Spider's Prey

Web Sites of the Month:
Whole Brain Teaching

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



Start the New Year right—come
see the wonderful **free things** in
stock that will help make 2010 a
wonderful Science year. **Give us a
call and then come collect the
free goodies!**

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—WHAT DID SANTA BRING ?



Scientific observations can't always rely upon what can be
seen. This activity will help to sharpen your students'

- Observation skills
- Prediction skills
- Thinking
- Gathering and organizing of data

See the last page of this NEWSLETTER for attached activity.

Help us spread quality science education in San Diego County

With your support the Science and Technology Teacher Resource Center
has been able to provide quality science education workshops and teacher
materials. We seek to transform students' STEM education experiences by
providing student focused resources, programs and mentors. We also seek
to inspire and support teachers and administrators, helping them to concen-
trate on their students by providing explicit and effective resources.

Our center depends on community funding to achieve our mission. We need
your help. At this time of year companies and individuals are looking for tax
-deductible programs to support. Would you please consider giving a gift to
our Center? Would you also spread the word about us to your friends,
neighbors, clubs and social organizations? Our team would be delighted to
speak at your organization events or club meetings.

Every dollar raised goes towards providing teachers with:

- ✓ a "distribution center" for free classroom materials recycled from
industry, conferences and conventions
- ✓ a "library/resource center" with over 200 sets of science and
technology curriculum materials created government agencies
- ✓ a "meeting place" for professional gatherings and teacher professional
development workshops

You can learn more about us at www.treasuresforteachers.org.

Thank you again for helping create a better quality of life in San Diego.

Sharon Freeburn

Teacher in Residence



Ring in the New Year with a Science Workshop

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.

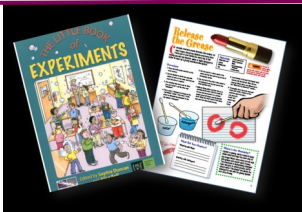
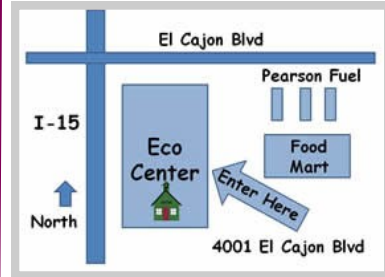
The Science & Technology Teacher Resource Center offers **FREE science workshops to all teachers – public and private!** Join us for a few hours and add some new ideas to your science toolbox. All workshops are offered at The Science & Technology Teacher Resource Center at our new location on El Cajon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

Call 619-847-5518 NOW!

Science & Technology Teacher Resource Center



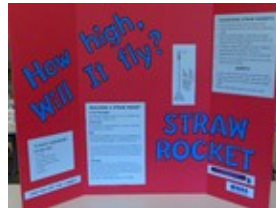
Co-located with the Eco Center at 4001 El Cajon Blvd, San Diego



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 **January 7, 2010.**



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 5:30-7:30 pm on **January 21, 2010.**

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**



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!!

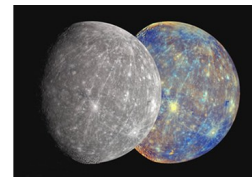
This **2 hour** workshop will be held at the Resource Center from 5:30-7:30 pm on **March 4, 2010.**



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 will be held at the Resource Center from 5:30-8:30 pm on **February 18, 2010.**



Big things are happening in Space! Are you including them in your teaching??

Join this exciting workshop to find ways to create this historical event into **A FIELD TRIP INTO SPACE for your classroom.** 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. This **3 hour** workshop will be held at the Resource Center from 5:30-8:30 pm on **March 25, 2010.**

Things To Know About!

Science programs you don't want to miss.

"Kids in Micro-g!" is a student experiment design challenge geared toward grades 5-8. Its purpose is to give students a hands-on opportunity to design an experiment or simple demonstration that could be performed both in the classroom and aboard the International Space Station.

Experiment proposals may be submitted by educators on behalf of their student groups. Proposals may be submitted via e-mail or postal mail during the period from **Jan. 4, 2010, through Feb. 19, 2010.**

For more information about the challenge, including a scoring rubric, proposal requirements and a list of materials available to the astronauts, visit http://www.nasa.gov/mission_pages/station/science/nlab/



Spider's Prey

Web Sites of the Month – Whole Brain Teaching

www.wholebrainteaching.com

Whole Brain Teaching is fun, free and powerfully engages challenging students...

In their two free downloads, "Teaching Challenging Elementary Students" and "Teaching Challenging Teens" you'll find a remarkable suite of strategies for taming your disruptive kids.

Here are four secrets of their method:

- If you make your rules fun to follow, students will be more likely to follow your rules.
- Highly energetic students with short attention spans respond remarkably well ... to short lessons peppered with learning opportunities to be highly energetic.
- Rebel students become significantly less rebellious when the teacher is eagerly supported by the rebel's former allies.
- If classroom instruction entertainingly engages the whole brain, students don't have any mental area left over to create challenging behavior!

To learn more about Power Teaching's strategies for teaching challenging students, explore the [Free Downloads](#) at www.wholebrainteaching.com.

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 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.**

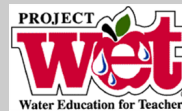
Coming soon, Growing Up WILD

an environmental education program for Early Childhood Education focusing on wildlife and environmental education concepts for children ages 3 to 7.



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. This workshop will be held at the Resource Center from 9am–3pm on **March 13, 2010.**



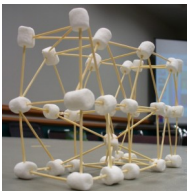
WET stands for Water Education for Teachers.

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 workshop will be held at the Resource Center from 9am–3pm on **January 30, 2010.**



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 **February 27, 2010.**



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 will be held at the Resource Center from 5:30-8:30 pm on **February 4, 2010.**

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

WHAT DID SANTA BRING ?

Santa and the elves have been working very hard up at the North Pole to get ready for Christmas. Unfortunately, some of the elves decided to play tricks on Santa this year. Instead of putting toys in all of the packages they put small lumps of coal in some! Santa needs you to help him find which packages have the lumps of coal. The lumps of coal were only placed in plain boxes. Boxes with fancy interiors do not have coal. You will need to work with your group to determine what the inside of each box "looks like". By gently tipping, shaking, and moving the packages your group will draw a diagram of the inside of each box.



QUESTIONS TO ASK STUDENTS

- Do you think all of the boxes will be the same?
- How many do you think will have coal?
Carefully investigate one box with your group.
- What shape is the inside?
- Does it match the outside?
- When you tip, shake and move the box what do you feel? What do you hear?
- How many corners do you think are inside the box? How can you tell?
- What helped you form ideas on what the box looked like on the inside?
- Are all the boxes the same?

Trade your package with another group and investigate the new package. Continue until you have examined all of the packages.

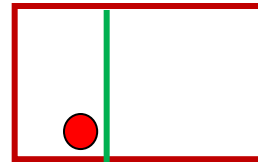
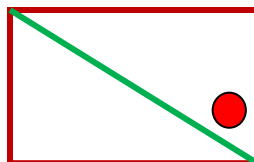
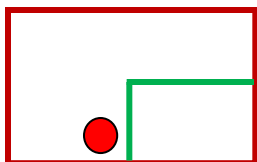
- How many different fancy interiors did your group find?
- Compare what is happening inside each gift. Diagram and share your inferences about what Santa has brought.
- Where the interiors your group drew the same as the interiors other groups drew? Why or why not?
- Did your group find any packages with coal?

INSTRUCTIONS FOR SANTA'S HELPER



Using 6 boxes with the same dimensions make a change in five of the boxes using cardboard and tape so the marble doesn't roll directly to at least one corner. Leave one box unaltered. This is the box with the "coal". Place a marble or two in each box before carefully sealing up the boxes and wrapping them up like gifts. Place gift labels on each package for identification. Have groups of children investigate one box for each group and try to come to a consensus on what the interior "looks like". Then have them trade packages and investigate a new box. When everyone has "seen" all the packages have the class compare their drawings.

Possible box configurations



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