



May 2009

What's In This Issue?

Activity of the Month

Bag of Buttons

Upcoming Workshops

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

What's In Stock?

Free classroom materials for your classroom—New goodies from Sea World have arrived!

Things To Know About

- Forestry Institute for Teachers
- BeakMan's World

Spider's Prey

Web Sites of the Month:

- Alt Key Numeric Codes

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



Bag of Buttons—Classification

This set of hands on activities will help your students learn the important skills of how to find patterns and form groups to create classification systems.

See the last page of this NEWSLETTER for attached activity.

NEW!

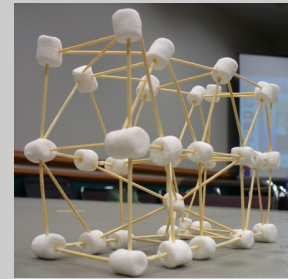
Do you teach the "E" in STEM Education?

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 is available at the Resource Center from 5:30-8:30 pm on **May 11, 2009**.

Call **619-847-5518**

to inquire about our free workshops.



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

Are you keeping sharp in your science teaching?

MARK your calendar then **JOIN** us for **WORKSHOPS** to improve your **SCIENCE TEACHING!**

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. All workshops are offered at The Science & Technology Teacher Resource Center in Point Loma 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.



Things To Know About!

Science programs you don't want to miss.

"Forestry Institute for Teachers"

This is a professional development opportunity that you don't want to miss.

They still have openings available for their Plumas and Shasta County FIT sessions! The Plumas session runs from June 14-20 and the Shasta County session runs from July 5-11.

Learn how to integrate the study of California's forests into your curriculum. Fit provides K-12 educators with a *balanced, science-based* program that increases understanding and appreciation of California's forest ecosystems and the complex issues involved in managing the natural resources.

It is the most balanced forum I have ever experienced.

All meals and lodging are **free**. Teachers are provided with extensive classroom and curriculum materials, and a \$200 stipend on completion and implementation of a forest related curriculum unit or project conducted in their classrooms.

For more information go to www.forestryinstitute.org

BeakMan's World

This zany educational children's television show starring the eccentric scientist Professor Beakman is available for viewing by Googling "BeakMan's World" and looking at the "video" options. A number of experiments are offered on You Tube. Your students can learn about gas density, catalysts, elephants, and more.



Spider's Prey Web Sites of the Month

<http://tlt.its.psu.edu/suggestions/international/accents/codealt.html>

Ever wonder how to add a cent sign "¢" or other symbols for math worksheets? OR how to include an accent mark to a child's name?

This website shows Windows users how to use Alt Key Numeric Codes to insert useful symbols as an alternative to using the "insert" tab on the top of the window, then "symbols" and "more symbols". Note the font can be set to match what you are using!

Macintosh users can go to the following site to obtain similar codes.

<http://tlt.its.psu.edu/suggestions/international/accents/codemac.html>

COMING THIS SUMMER! Fundamentals of Inquiry

From the *Exploritorium* in San Francisco, this **20 hour** hands-on workshop will examine different ways of teaching science by exploring the elements of inquiry.

"Don't be discouraged by a failure.

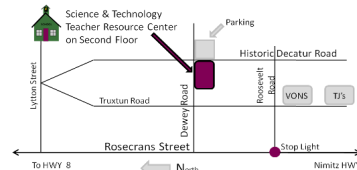
It can be a positive experience.

Failure is, in a sense, the highway to success,
inasmuch as very discovery of what is false
leads us to seek earnestly after what is true,
and every fresh experience points out
some form of error
which we shall afterwards carefully avoid."

~John Keats (1795-1821)

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

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?

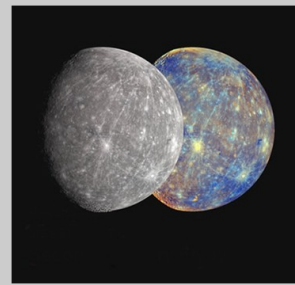
Sea World has delivered some
wonderful **posters and books!**
Hurry to pick some up while they
remain on our shelves!
We have **tote bags** from conven-
tions that were held in San Diego.
Tote bags are a wonderful way to
store science units. Drop by and
pick some up to help organize your
science materials.

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

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

MESSENGER spacecraft will flyby Mercury on September 29, 2009.

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. Learn the latest information about the flyby. 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 **June 15, 2009**.



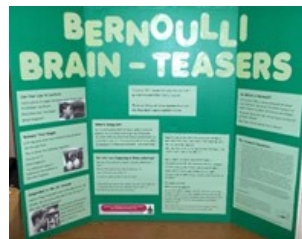
Introduction to Internet Resource Materials

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 again in the summer.



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 **May 28, 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 will be held at the Resource Center from 5:30-8:30 pm on **May 7, 2009**.



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 **June 25, 2009**.

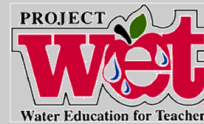
Environmental Education Workshops

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.**



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 a **6 hour** workshop that will be held at the Resource Center from 9am-3pm on **June 13, 2009**.



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 will be held again in the summer.



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 **May 16, 2009**.

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

Bag of Buttons - Classification



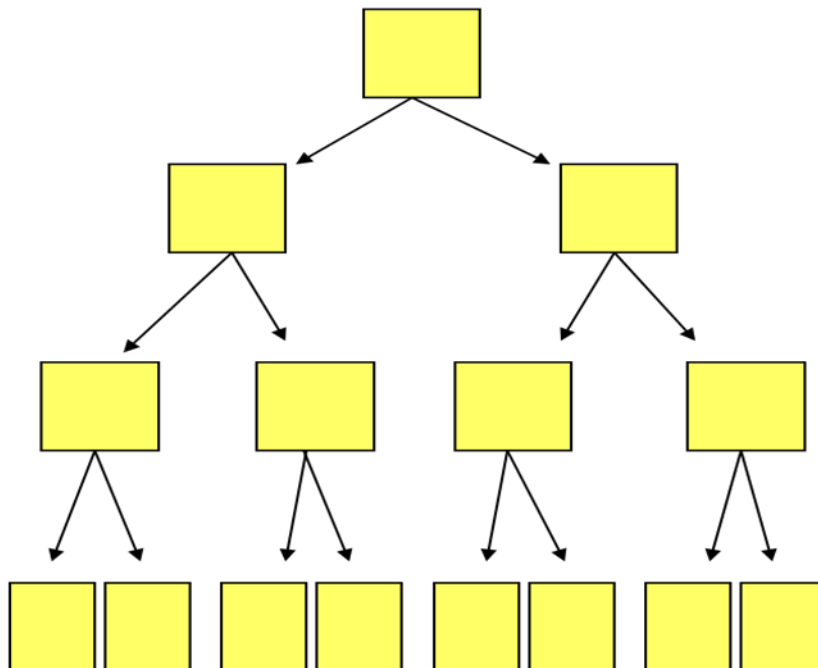
Materials:

- The children's shoes - one from each child, placed in a pile in the middle of the group
- Chart paper to list group observations about shoes
- A bag of assorted buttons for each small working group of students

"Sometimes we need to put things into groups so we can study them and better understand them. Scientists do this. They group things into living and non-living. Then they look at the living things and say plant or animal. Then they classify the animal kingdom into two groups - with or without a backbone (vertebrate or invertebrate). All vertebrate are in the same phylum - Chordata. The invertebrates belong to several phyla. Members of a particular phylum are further subdivided in a series of steps by class, order, family, genus, and species. They continue this process until they are down to a special kind of fish or bird or toad.

"Today we are going to do the same activity as the scientists. Look at your shoes. Look at your neighbor's shoes. Together we will make a list of observable characteristics for shoes. (*Make a list on chart paper of all the characteristics the children observe about shoes.*) Next, we will divide the shoes into two groups based on one observation - do they have laces or not. We will repeat this process of dividing each group into two groups using one observable characteristic until each shoe has its own group. Then we can create a diagram to illustrate our classification system."

Working in small groups have the children look through a bag of buttons. Each group should divide the buttons into two groups using one observable characteristic. Have them continue the process until they have placed every button into a category. Then have them draw a diagram to show how they sorted the buttons. When they have finished they can share how their group sorted the buttons. Introduce one new button and have the groups figure out where it will fit in their system.



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