

SPRING 2010



PROFESSIONAL DEVELOPMENT WORKSHOP SERIES FOR EDUCATORS AT RAFT

3136 Howard, McClellan CA 95652 (916) 640-1442

SMUD SPONSORED ENERGY AND STEM EDUCATION



In All Probability® (Grades 3-6)

January 30, 2010 9:00 a.m. – 12:00 p.m. (No Charge)

Teacher will learn to help students gain confidence in these concepts as they investigate chance, gather and analyze data, make predictions, and draw conclusions. The unit provides a solid basis for the development of much-needed real-life understandings and skills. GEMS guide provided.

Electric Circuits® (Grades 4-8)

February 27, 2010 9:00 a.m. – 12:00 p.m. (No Charge)

Electric Circuits is highly recommended for Grade 4 teachers as a student introduction to electricity and electric circuits. Participants will learn presentation strategies; explore, build and compare simple closed, series and parallel circuits; learn about short circuits; investigate the role of batteries, resistance, conductors and insulators; create their own electrical inventions; and learn how to draw schematic diagrams. GEMS guide provided.

Matter: Solids, Liquids and Gases® (Grades K-3)

March 13, 2010 10:30 a.m. – 1:30 p.m. (No Charge)

In a succession of intriguing hands-on learning station activities, teachers will show students how to gather, apply, and reflect on physical evidence, just as scientists do, and learn what matter is—and what it is not. Students learn about the properties of solids, liquids, and gases, and apply this knowledge to common objects in the world around them. GEMS guide provided.

Chemical Reactions® (Grades 5-8)

April 10, 2010 10:30 a.m. – 1:30 p.m. (No Charge)

Teachers will take an ordinary zip-locking bag and learn how it becomes a safe and spectacular laboratory to teach students to mix chemicals that bubble, change color, and produce gas, heat, and odor. A terrific introduction to chemistry, this guide is often adapted for lower grade levels. GEMS guide provided.

Build it! Festival® (Grades K-8)

April 24, 2010 9:00 a.m. – 12:00 p.m. (No Charge)

Teacher will use this math unit's wealth of learning-station activities help students make real-world connections as they focus on construction, geometric challenges, and spatial visualization. GEMS guide provided

Color Analyzers® (Grades 5-8)

May 22, 2010 9:00 a.m. – 12:00 p.m. (No Charge)

Teachers will learn about light as energy and investigate light and color, experimenting with diffraction gratings and color filters. GEMS guide provided.

For information or
registration:
Suzette Bienvenue DelBono
Education Specialist
916.732.6738
sdelbon@smud.org

