

UCI
21st Summer Science Institute
August 6 – August 24, 2001
for
K-12 Teachers of Science

Opportunities for Professional Growth in Science
All courses are referenced to the California Science Content Standards

Reading and Art Interfaced with Science - Grades K-5. *Content Area Focus: Reading, Art and Science. 1 WEEK*
Integrate all three areas in the classroom while students seamlessly learn the content of the various standards.

Biology for Elementary Teachers - Grades K-7. *Content Area Focus: Biological Science. 1 WEEK*
Develop an understanding of everyday biological phenomena that can be easily incorporated into the elementary classroom.

Physical Sciences with Mathematics Integration - Grades 3-8. *Content Area Focus: Physical Science. 1 WEEK*
Understand the physics and mathematics involved from flight to bottle rockets. to silly putty.

Earth Science in the Elementary Classroom - Grades K-6. *Content Area Focus: Earth Science. 1 WEEK*
Trace the origin, growth, uses, processing, renewal, and conservation of our natural resources.

Problem Based Learning Grades 6-8. *Content Area Focus: Life, Earth and Physical Sciences. 1 WEEK*
An inquiry based approach to classroom instruction to help students understand the nature of science.

Ecology of Orange County – Grades K-8. *Content Area Focus: Life, Earth & Physical. 2 WEEKS*
Explore the ecology and geology of Orange County through a field studies approach. An integrated investigation of life, earth and physical sciences of the unique abiotic and biotic factors of our county.

Best of the Exploratorium and Lawrence Hall of Science - Grades 7-10. *Content Area Focus: Physical Science. 2 WEEKS*
Experience hands-on, cohesive and meaningful activities integrated with the science content necessary to understand light, electricity and chemistry. Construct your own classroom science materials.

MESA: Building the Future Today - Grades 7-12. *Content Area Focus: Physical Science, Mathematics, Engineering. 1 WEEK*
Delve into the mathematics science and engineering concepts behind traditional MESA activities.

WEB QUESTS I, Internet Resources in the Classroom – Grades K-12. *Content Area Focus: Life, Earth or Physical. 1 WEEK*
Develop lessons around the content area of your choice and then publish them on the Institute web pages

WEB QUESTS II, Internet Resources in the Classroom – Grades K-12. *Content Area Focus: Life, Earth or Physical. 1 WEEK*
Go beyond simple webquests. Develop your skills and a higher level of expertise

Independent Study - Grades K-12. *Content Area Focus: Life, Earth or Physical Science. On your own time.*
Align your curriculum to the Standards, develop a science curriculum unit or undertake a teacher based research project.