

ELEMENTARY SCIENCE OFFERINGS– *Region 10 or Cluster Sites Only*

Connecting To Unifying Concepts Through Earth Science

This training has been developed to help you in the following ways: Add to your content knowledge of Earth Science concepts and model teaching strategies that meet the needs of ELL Students, differentiating instruction using the 5E Model that will invigorate your science classroom.

Connecting To Unifying Concepts Through Space Science

This training has been developed to help you in the following ways: Add to your content knowledge of Space Science concepts and model teaching strategies that meet the needs of ELL Students, differentiating instruction using the 5E Model that will invigorate your science classroom.

Connecting To Unifying Concepts Through Physical Science: Energy

This training has been developed to help you in the following ways: Add to your content knowledge of Physical Science concepts and model teaching strategies that meet the needs of ELL Students, differentiating instruction using the 5E Model that will invigorate your science classroom.

Connecting To Unifying Concepts Through Physical Science: Matter

This training has been developed to help you in the following ways: Add to your content knowledge of Physical Science concepts and model teaching strategies that meet the needs of ELL Students, differentiating instruction using the 5E Model that will invigorate your science classroom.

Connecting To Unifying Concepts Through Life Science

This training has been developed to help you in the following ways: Add to your content knowledge of Life Science concepts and model teaching strategies that meet the needs of ELL Students, differentiating instruction using the 5E Model that will invigorate your science classroom.

Changes Over Time* (K- 5) (3 - 6 hour modules)

Fundamental concepts and principles of the National Science Education Standard on Earth Science will be discussed and examined. Activities that are specific to each piece of this standard will be investigated for grades K-8. This workshop is designed to enable students in grades K-2 to learn about what causes earthquakes, volcanoes and floods and how those events shape the surface of the earth.

GLOBE will promote and support students, teachers, and scientists associated with NSF and NASA-funded Integrated Earth Systems Science Programs to collaborate on inquiry-based investigations of the environment and the Earth System.

SECONDARY SCIENCE OFFERINGS– *Region 10 or Cluster Sites Only*

Changes Over Time for Grades 6-8

This professional development is designed to show teachers how to encourage students' understanding of properties of earth materials and changes in the earth and sky.

Chemistry in a Conceptual Format for Grades 9-12

This training will prepare teachers for the new high school science requirements in chemistry. It is a highly rigorous and high-quality staff development program designed for 9th through 12th grade teachers. Rich instructional materials will be provided.

Chemistry for Middle School Students

This academy will prepare teachers to prepare students for the new high school science requirements in chemistry. It is a highly rigorous and high-quality staff development program designed for 6th through 8th grade teachers. Rich instructional materials will be provided.

Next Generation GLOBE – *NEW TITLE*

GLOBE will promote and support students, teachers, and scientists associated with NSF and NASA-funded Integrated Earth Systems Science Programs to collaborate on inquiry-based investigations of the environment and the Earth System.

Physics for All – Electricity – *NEW TITLE*

This academy offers an integrated approach to physics content– specifically on electricity and magnetism, instructional materials, and pedagogy. It contains an assortment of resources, making it flexible enough to accommodate a variety of teachers and students.

Physics for All – Force and Motion

This two day academy offers an integrated approach to physics content – specifically on force and motion, instructional materials, and pedagogy. It contains an assortment of resources, making it flexible enough to accommodate a variety of teachers and students.

Science for English Language Learners

The primary purpose of the ELL Initiative is to develop resources for professional development targeted at improving science instruction for English Language Learners, especially those at the secondary level. Classroom practices that contribute to successful science instruction for English Language Learners will be explored and misconceptions and roadblocks discussed.

Teaching Science through Technology

This training will equip teachers to be effective users of technology as they teach to the depth and complexity outlined by the TEKS for science. Participants will explore a variety of technologies (iPods, blogging, digital photography, spreadsheets, etc.) to utilize in the science classroom.