

Science

2009 CONFERENCE FOR THE ADVANCEMENT OF SCIENCE TEACHING CAST - GALVESTON, TX

Expected Outcome: Teachers will experience activities and hands-on opportunities provided by CAST workshops/sessions that are aligned to the TEKS/TAKS and aligned with subject/course assignment for 2009-2010. Securing funds for registration fee and related costs are the teachers' responsibility. Proof of attendance with documentation must be received by the Science Dept before November 12, 2009.

Audience: Science Teachers (Grades 6-8) Experienced Teachers (Hired in 2008 - 2009 or prior)

Staff Development Credit: 7.0 Hours Compensatory Time/Mandatory PD Credit

Start and End Dates	Start and End Times	Location	Class Code
05-NOV-2009 - 07-NOV-2009	-	GALVESTON, TX	10154093

ASSESSMENT IN A SCIENCE CLASSROOM, GRADES 4 AND 5

Expected Outcome: In this course participants will 1) Engage in a study of best practice in formative and summative assessments to use in the classroom; 2) Engage in a study of the Principles of Learning Fair and Credible Evaluations and Self Management of Learning; and 3) use Curriculum Planning Guides to design formative and summative assessments, aligned criteria charts and rubrics, and project based assessments.

Audience: Grades 4 and 5 Science Teachers

Staff Development Credit: 7.0 Hours Compensatory Time/Mandatory PD Credit

Start and End Dates	Start and End Times	Location	Class Code
16-JUN-2009 - 16-JUN-2009	08:00 - 16:00	A MACEO SMITH HIGH SCHOOL	10154034
22-JUN-2009 - 22-JUN-2009	08:00 - 16:00	A MACEO SMITH HIGH SCHOOL	10154035
30-JUL-2009 - 30-JUL-2009	08:00 - 16:00	A MACEO SMITH HIGH SCHOOL	10154036
04-AUG-2009 - 04-AUG-2009	08:00 - 16:00	A MACEO SMITH HIGH SCHOOL	10154037
19-SEP-2009 - 19-SEP-2009	08:00 - 16:00	A MACEO SMITH HIGH SCHOOL	10154038

ASSESSMENT IN A SCIENCE CLASSROOM, GRADES 6 - 8

Expected Outcome: In this course participants will 1) Engage in a study of best practice in formative and summative assessments to use in the classroom; 2) Engage in a study of the Principles of Learning Fair and Credible Evaluations and Self Management of Learning; and 3) use Curriculum Planning Guides to design formative and summative assessments, aligned criteria charts and rubrics, and project based assessments.

Audience: Grades 6 - 8 Science Teachers

Staff Development Credit: 7.0 Hours Compensatory Time/Mandatory PD Credit

Start and End Dates	Start and End Times	Location	Class Code
16-JUN-2009 - 16-JUN-2009	08:00 - 16:00	A MACEO SMITH HIGH SCHOOL	10154039
22-JUN-2009 - 22-JUN-2009	08:00 - 16:00	A MACEO SMITH HIGH SCHOOL	10154040
30-JUL-2009 - 30-JUL-2009	08:00 - 16:00	A MACEO SMITH HIGH SCHOOL	10154041
04-AUG-2009 - 04-AUG-2009	08:00 - 16:00	A MACEO SMITH HIGH SCHOOL	10154042
19-SEP-2009 - 19-SEP-2009	08:00 - 16:00	A MACEO SMITH HIGH SCHOOL	10154043

Science

ASSESSMENT IN A SCIENCE CLASSROOM, GRADES 9 - 12

Expected Outcome: In this course participants will 1) Engage in a study of best practice in formative and summative assessments to use in the classroom; 2) Engage in a study of the Principles of Learning Fair and Credible Evaluations and Self Management of Learning; and 3) use Curriculum Planning Guides to design formative and summative assessments, aligned criteria charts and rubrics, and project based assessments.

Audience: Grades 9 - 12 Science Teachers

Staff Development Credit: 7.0 Hours Compensatory Time/Mandatory PD Credit

Start and End Dates	Start and End Times	Location	Class Code
16-JUN-2009 - 16-JUN-2009	08:00 - 16:00	A MACEO SMITH HIGH SCHOOL	10154044
22-JUN-2009 - 22-JUN-2009	08:00 - 16:00	A MACEO SMITH HIGH SCHOOL	10154045
30-JUL-2009 - 30-JUL-2009	08:00 - 16:00	A MACEO SMITH HIGH SCHOOL	10154046
04-AUG-2009 - 04-AUG-2009	08:00 - 16:00	A MACEO SMITH HIGH SCHOOL	10154047
19-SEP-2009 - 19-SEP-2009	08:00 - 16:00	A MACEO SMITH HIGH SCHOOL	10154048

BUILDING ACADEMIC VOCABULARY IN SCIENCE (REGION 10), GRADES 4 AND 5

Expected Outcome: Participants will gain knowledge from the research completed by Dr. Robert Marzano and Associates in the field of academic vocabulary. Research based "hands-on" strategies will be completed during the session along with discussions of the implementation of the strategies in classrooms with English language learners and students at risk of failure.

Audience: Grades 4 and 5 Science Teachers

Staff Development Credit: 7.0 Hours Compensatory Time/Mandatory PD Credit

Start and End Dates	Start and End Times	Location	Class Code
27-JUL-2009 - 27-JUL-2009	08:00 - 16:00	A MACEO SMITH HIGH SCHOOL	10154076

BUILDING ACADEMIC VOCABULARY IN SCIENCE (REGION 10), GRADES 6 - 12

Expected Outcome: Participants will gain knowledge from the research completed by Dr. Robert Marzano and Associates in the field of academic vocabulary. Research based "hands-on" strategies will be completed during the session along with discussions of the implementation of the strategies in classrooms with English language learners and students at risk of failure.

Audience: Grades 6 - 12 Science Teachers

Staff Development Credit: 7.0 Hours Compensatory Time/Mandatory PD Credit

Start and End Dates	Start and End Times	Location	Class Code
28-JUL-2009 - 28-JUL-2009	08:00 - 16:00	A MACEO SMITH HIGH SCHOOL	10154077

BUTTERFLY GARDEN FOR SCHOOLS (TEXAS DISCOVERY GARDEN)

Expected Outcome: Educators will learn skills and activities to develop a certified butterfly habitat in their schools.

Audience: Grades 4 - 9 Science Teachers

Staff Development Credit: 7.0 Hours Compensatory Time/Mandatory PD Credit

Start and End Dates	Start and End Times	Location	Class Code
26-JUN-2009 - 26-JUN-2009	09:00 - 16:00	TEXAS DISCOVERY GARDEN	10154094

Science

COMPOSTING IN THE CLASSROOM (TEXAS DISCOVERY GARDEN)

Expected Outcome: Teachers will learn and explore lesson plans, classroom worm bins, resources and hands-on activities to be able to do composting in their schools.

Audience: Grades 4 - 7 Science Teachers

Staff Development Credit: 3.5 Hours Compensatory Time/Mandatory PD Credit

Start and End Dates	Start and End Times	Location	Class Code
14-NOV-2009 - 14-NOV-2009	13:00 - 17:00	TEXAS DISCOVERY GARDEN	10154096

CURRICULUM/INSTRUCTIONAL UPDATES IN SCIENCE, GRADES 4 AND 5

Expected Outcome: This course will 1) Provide participants with national, state and local updates in science. 2) Enhance participants knowledge and understanding of Disciplinary Literacy concepts. 3) Provide participants content updates (learning standards, major concepts, scientific process skills, labs and activities based on the Curriculum Planning Guide.

Audience: Grades 4 and 5 Science Teachers

Staff Development Credit: 7.0 Hours Compensatory Time/Mandatory PD Credit

Start and End Dates	Start and End Times	Location	Class Code
15-JUN-2009 - 15-JUN-2009	08:00 - 16:00	A MACEO SMITH HIGH SCHOOL	10154001
17-JUN-2009 - 17-JUN-2009	08:00 - 16:00	A MACEO SMITH HIGH SCHOOL	10154002
23-JUN-2009 - 23-JUN-2009	08:00 - 16:00	A MACEO SMITH HIGH SCHOOL	10154003
25-JUN-2009 - 25-JUN-2009	08:00 - 16:00	A MACEO SMITH HIGH SCHOOL	10154004
27-JUL-2009 - 27-JUL-2009	08:00 - 16:00	A MACEO SMITH HIGH SCHOOL	10154005
29-JUL-2009 - 29-JUL-2009	08:00 - 16:00	A MACEO SMITH HIGH SCHOOL	10154006
03-AUG-2009 - 03-AUG-2009	08:00 - 16:00	A MACEO SMITH HIGH SCHOOL	10154007
06-AUG-2009 - 06-AUG-2009	08:00 - 16:00	A MACEO SMITH HIGH SCHOOL	10154008
19-SEP-2009 - 19-SEP-2009	08:00 - 16:00	A MACEO SMITH HIGH SCHOOL	10154009
17-OCT-2009 - 17-OCT-2009	08:00 - 16:00	A MACEO SMITH HIGH SCHOOL	10154010
23-NOV-2009 - 23-NOV-2009	08:00 - 16:00	A MACEO SMITH HIGH SCHOOL	10154011

Science

CURRICULUM/INSTRUCTIONAL UPDATES IN SCIENCE, GRADES 6 - 8

Expected Outcome: This course will 1) Provide participants with national, state and local updates in science. 2) Enhance participants knowledge and understanding of Disciplinary Literacy concepts. 3) Provide participants content updates (learning standards, major concepts, scientific process skills, labs and activities based on the Curriculum Planning Guide.)

Audience: Grades 6 - 8 Science Teachers

Staff Development Credit: 7.0 Hours Compensatory Time/Mandatory PD Credit

Start and End Dates	Start and End Times	Location	Class Code
15-JUN-2009 - 15-JUN-2009	08:00 - 16:00	A MACEO SMITH HIGH SCHOOL	10154012
17-JUN-2009 - 17-JUN-2009	08:00 - 16:00	A MACEO SMITH HIGH SCHOOL	10154013
23-JUN-2009 - 23-JUN-2009	08:00 - 16:00	A MACEO SMITH HIGH SCHOOL	10154014
25-JUN-2009 - 25-JUN-2009	08:00 - 16:00	A MACEO SMITH HIGH SCHOOL	10154015
27-JUL-2009 - 27-JUL-2009	08:00 - 16:00	A MACEO SMITH HIGH SCHOOL	10154016
29-JUL-2009 - 29-JUL-2009	08:00 - 16:00	A MACEO SMITH HIGH SCHOOL	10154017
03-AUG-2009 - 03-AUG-2009	08:00 - 16:00	A MACEO SMITH HIGH SCHOOL	10154018
06-AUG-2009 - 06-AUG-2009	08:00 - 16:00	A MACEO SMITH HIGH SCHOOL	10154019
19-SEP-2009 - 19-SEP-2009	08:00 - 16:00	A MACEO SMITH HIGH SCHOOL	10154020
17-OCT-2009 - 17-OCT-2009	08:00 - 16:00	A MACEO SMITH HIGH SCHOOL	10154021
23-NOV-2009 - 23-NOV-2009	08:00 - 16:00	A MACEO SMITH HIGH SCHOOL	10154022

CURRICULUM/INSTRUCTIONAL UPDATES IN SCIENCE, GRADES 9 - 12

Expected Outcome: This course will 1) Provide participants with national, state and local updates in science. 2) Enhance participants knowledge and understanding of Disciplinary Literacy concepts. 3) Provide participants content updates (learning standards, major concepts, scientific process skills, labs and activities based on the Curriculum Planning Guide.)

Audience: Grades 9 - 12 Science Teachers

Staff Development Credit: 7.0 Hours Compensatory Time/Mandatory PD Credit

Start and End Dates	Start and End Times	Location	Class Code
15-JUN-2009 - 15-JUN-2009	08:00 - 16:00	A MACEO SMITH HIGH SCHOOL	10154023
17-JUN-2009 - 17-JUN-2009	08:00 - 16:00	A MACEO SMITH HIGH SCHOOL	10154024
23-JUN-2009 - 23-JUN-2009	08:00 - 16:00	A MACEO SMITH HIGH SCHOOL	10154025
25-JUN-2009 - 25-JUN-2009	08:00 - 16:00	A MACEO SMITH HIGH SCHOOL	10154026
27-JUL-2009 - 27-JUL-2009	08:00 - 16:00	A MACEO SMITH HIGH SCHOOL	10154027
29-JUL-2009 - 29-JUL-2009	08:00 - 16:00	A MACEO SMITH HIGH SCHOOL	10154028
03-AUG-2009 - 03-AUG-2009	08:00 - 16:00	A MACEO SMITH HIGH SCHOOL	10154029
06-AUG-2009 - 06-AUG-2009	08:00 - 16:00	A MACEO SMITH HIGH SCHOOL	10154030
19-SEP-2009 - 19-SEP-2009	08:00 - 16:00	A MACEO SMITH HIGH SCHOOL	10154031
17-OCT-2009 - 17-OCT-2009	08:00 - 16:00	A MACEO SMITH HIGH SCHOOL	10154032
23-NOV-2009 - 23-NOV-2009	08:00 - 16:00	A MACEO SMITH HIGH SCHOOL	10154033

Science

DISCIPLINARY LITERACY INSTITUTE FOR SCIENCE, GRADES 4 AND 5

Expected Outcome: In this course participants will 1) engage in active study of the Principles of Learning in action and gain a better understanding of Disciplinary Literacy in Science; 2) write testable questions for investigations, formulate scientific explanations from evidence, understand the features of inquiry, and analyze student work samples; and 3) receive critical national, state, and local updates in Science. NOTE: THIS IS A TWO-DAY COURSE. PARTICIPANTS MUST ATTEND AND COMPLETE BOTH DAYS IN ORDER TO RECEIVE CREDIT. NO PARTIAL CREDIT WILL BE GIVEN.

Audience: Grades 4 and 5 Science Teachers

Staff Development Credit: 14.0 Hours Compensatory Time/Mandatory PD Credit

Start and End Dates	Start and End Times	Location	Class Code
22-JUN-2009 - 23-JUN-2009	08:00 - 16:00	A MACEO SMITH HIGH SCHOOL	10154070
04-AUG-2009 - 05-AUG-2009	08:00 - 16:00	A MACEO SMITH HIGH SCHOOL	10154071

DISCIPLINARY LITERACY INSTITUTE FOR SCIENCE, GRADES 6 - 8

Expected Outcome: In this course participants will 1) engage in active study of the Principles of Learning in action and gain a better understanding of Disciplinary Literacy in Science; 2) write testable questions for investigations, formulate scientific explanations from evidence, understand the features of inquiry, and analyze student work samples; and 3) receive critical national, state, and local updates in Science. NOTE: THIS IS A TWO-DAY COURSE. PARTICIPANTS MUST ATTEND AND COMPLETE BOTH DAYS IN ORDER TO RECEIVE CREDIT. NO PARTIAL CREDIT WILL BE GIVEN.

Audience: Grades 6 - 8 Science Teachers

Staff Development Credit: 14.0 Hours Compensatory Time/Mandatory PD Credit

Start and End Dates	Start and End Times	Location	Class Code
22-JUN-2009 - 23-JUN-2009	08:00 - 16:00	A MACEO SMITH HIGH SCHOOL	10154072
04-AUG-2009 - 05-AUG-2009	08:00 - 16:00	A MACEO SMITH HIGH SCHOOL	10154073

DISCIPLINARY LITERACY INSTITUTE FOR SCIENCE, GRADES 9 - 12

Expected Outcome: In this course participants will 1) engage in active study of the Principles of Learning in action and gain a better understanding of Disciplinary Literacy in Science; 2) write testable questions for investigations, formulate scientific explanations from evidence, understand the features of inquiry, and analyze student work samples; and 3) receive critical national, state, and local updates in Science. NOTE: THIS IS A TWO-DAY COURSE. PARTICIPANTS MUST ATTEND AND COMPLETE BOTH DAYS IN ORDER TO RECEIVE CREDIT. NO PARTIAL CREDIT WILL BE GIVEN.

Audience: Grades 9 - 12 Science Teachers

Staff Development Credit: 14.0 Hours Compensatory Time/Mandatory PD Credit

Start and End Dates	Start and End Times	Location	Class Code
22-JUN-2009 - 23-JUN-2009	08:00 - 16:00	A MACEO SMITH HIGH SCHOOL	10154074
04-AUG-2009 - 05-AUG-2009	08:00 - 16:00	A MACEO SMITH HIGH SCHOOL	10154075

Science

EARTH SCIENCE FOR 5TH GRADERS

Expected Outcome: Participants will use instructional resources provided by the workshop to aid in obtaining appropriate and specific outcomes for subject matter using the 5E Lesson Plan Model, projects and other products. They will explore ways to teach the science learning standards for the appropriate grade level through hands-on activities using academic rigor in a high thinking curriculum. They will also learn cost effective techniques to teach solar and lunar activity, weathering, erosion, and deposition.

Audience: Grade 5 Science Teachers

Staff Development Credit: 7.0 Hours Compensatory Time/Mandatory PD Credit

Start and End Dates	Start and End Times	Location	Class Code
05-AUG-2009 - 05-AUG-2009	08:00 - 16:00	ENVIRONMENTAL EDUCATION CENTER	10154084

ECOLOGY IN THE 6TH GRADE MIDDLE SCHOOL SCIENCE CLASSROOM

Expected Outcome: Participants will learn to apply science process skills in the lab, in the field, and at the Environmental Education Center as relating to ecology. They will receive ecology instruction concerning rubrics, the 5E Lesson Plan Model, games, projects, models, foldable and other products. They will also use instructional resources provided by the workshop to aid in obtaining appropriate and specific outcomes for subject matter.

Audience: Middle School Grade 6 Science Teachers

Staff Development Credit: 7.0 Hours Compensatory Time/Mandatory PD Credit

Start and End Dates	Start and End Times	Location	Class Code
05-AUG-2009 - 05-AUG-2009	08:00 - 16:00	ENVIRONMENTAL EDUCATION CENTER	10154085

ECOLOGY IN THE 7TH GRADE MIDDLE SCHOOL SCIENCE CLASSROOM

Expected Outcome: Participants will learn to apply science process skills in the lab, in the field, and at the Environmental Education Center as relating to ecology. They will receive ecology instruction concerning rubrics, the 5E Lesson Plan Model, games, projects, models, foldable and other products. They will also use instructional resources provided by the workshop to aid in obtaining appropriate and specific outcomes for subject matter.

Audience: Middle School Grade 7 Science Teachers

Staff Development Credit: 7.0 Hours Compensatory Time/Mandatory PD Credit

Start and End Dates	Start and End Times	Location	Class Code
06-AUG-2009 - 06-AUG-2009	08:00 - 16:00	ENVIRONMENTAL EDUCATION CENTER	10154086

ENGINEERING IS ELEMENTARY (REGION 10), GRADES 4 AND 5

Expected Outcome: The Engineering is Elementary workshop is designed to help elementary school educators enhance their understanding of engineering concepts and pedagogy. EIE is a research-based, standards-based, and classroom-tested curriculum that integrates engineering and technology concepts and skills with elementary science topics.

Audience: Grade 4 and 5 Science Teachers

Staff Development Credit: 7.0 Hours Compensatory Time/Mandatory PD Credit

Start and End Dates	Start and End Times	Location	Class Code
23-NOV-2009 - 23-NOV-2009	09:00 - 16:00	REGION 10 ABRAMS BLUEBONNET ROOM	10154078

Science

LABORATORY SAFETY TRAINING FOR SCIENCE (REGION 10), GRADES 7 -12

Expected Outcome: This workshop will review the latest laws and regulations concerning science safety in Texas. Participants will review scenarios and discuss issues related to conducting a safe lab experience.

Audience: Secondary Science CILT/teachers who are responsible for mandatory campus TEA Safety Training

Staff Development Credit: 7.0 Hours Compensatory Time/Mandatory PD Credit

Start and End Dates	Start and End Times	Location	Class Code
16-JUN-2009 - 16-JUN-2009	08:00 - 16:00	A MACEO SMITH HIGH SCHOOL	10154080
24-NOV-2009 - 24-NOV-2009	08:00 - 16:00	REGION 10 ABRAMS BLUEBONNET ROOM	10154081

LIVING IN WATER 2009 (DALLAS ZOO)

Expected Outcome: Educators will explore the scientific study of water, aquatic environments and the plants and animals that call it home. Educators will receive a 400 page curriculum guide that will help them combine physics, earth and life science to examine the properties of aquatic ecosystems. Lesson plan emphasis is not on content, but on process. They will also receive a unique behind the scenes tour to enhance their experience! Cost \$10, register at www.dallaszooed.com. TEACHERS MUST PAY THEIR FEE/COST.

Audience: This workshop is for educators who work with students in grades 4 - 7

Staff Development Credit: 7.0 Hours Compensatory Time/Mandatory PD Credit

Start and End Dates	Start and End Times	Location	Class Code
12-JUN-2009 - 12-JUN-2009	09:00 - 16:00	DALLAS ZOO	10154089

PROJECT WILD 2009 (DALLAS ZOO)

Expected Outcome: Educators will spend the day on the WILD side by exploring experiential learning units that meet national and state standards in science education. They will receive a 500 page curriculum guide of activities that can easily be adapted to meet the learning requirements for academic disciplines ranging from science and environmental education to social studies, math, and language arts. They will also receive a unique behind the scenes tour to enhance their experience! Cost \$10, register at www.dallaszooed.com. TEACHERS MUST PAY THEIR FEE/COST.

Audience: This workshop is for educators who work with students in grades 4 - 12

Staff Development Credit: 7.0 Hours Compensatory Time/Mandatory PD Credit

Start and End Dates	Start and End Times	Location	Class Code
19-JUN-2009 - 19-JUN-2009	09:00 - 16:00	DALLAS ZOO	10154087

PROJECT WILD AQUATIC (DALLAS ZOO)

Expected Outcome: If you enjoyed Project WILD then you will love Project WILD Aquatic. Get ready for even more great activities from the Texas Parks and Wildlife nationally recognized program. This workshop will provide educators with a 400 page interdisciplinary curriculum guide that emphasizes aquatic wildlife and habitats. They will also receive a unique behind the scenes tour to enhance their experience! Cost \$10, register at www.dallaszooed.com. TEACHERS MUST PAY THEIR FEE/COST.

Audience: This workshop is for educators who work with students in grades 4 - 12

Staff Development Credit: 7.0 Hours Compensatory Time/Mandatory PD Credit

Start and End Dates	Start and End Times	Location	Class Code
26-JUN-2009 - 26-JUN-2009	09:00 - 16:00	DALLAS ZOO	10154088

Science

RIGOROUS TASKS, PROJECTS, AND PRODUCTS IN SCIENCE, GRADES 4 AND 5

Expected Outcome: In this course participants will 1) organize a calendar for students to implement steps toward completing activities for short term six weeks projects and long term science fair projects; 2) understand strategies and tips for helping students understand the Scientific method and inquiry; 3) review and complete Nature of Science mini-activities for students.

Audience: Grades 4 and 5 Science Teachers

Staff Development Credit: 7.0 Hours Compensatory Time/Mandatory PD Credit

Start and End Dates	Start and End Times	Location	Class Code
24-JUN-2009 - 24-JUN-2009	08:00 - 16:00	A MACEO SMITH HIGH SCHOOL	10154061
04-AUG-2009 - 04-AUG-2009	08:00 - 16:00	A MACEO SMITH HIGH SCHOOL	10154062
19-SEP-2009 - 19-SEP-2009	08:00 - 16:00	A MACEO SMITH HIGH SCHOOL	10154063

RIGOROUS TASKS, PROJECTS, AND PRODUCTS IN SCIENCE, GRADES 6 - 8

Expected Outcome: In this course participants will 1) organize a calendar for students to implement steps toward completing activities for short term six weeks projects and long term science fair projects; 2) understand strategies and tips for helping students understand the Scientific method and inquiry; 3) review and complete Nature of Science mini-activities for students.

Audience: Grades 6 - 8 Science Teachers

Staff Development Credit: 7.0 Hours Compensatory Time/Mandatory PD Credit

Start and End Dates	Start and End Times	Location	Class Code
24-JUN-2009 - 24-JUN-2009	08:00 - 16:00	A MACEO SMITH HIGH SCHOOL	10154064
04-AUG-2009 - 04-AUG-2009	08:00 - 16:00	A MACEO SMITH HIGH SCHOOL	10154065
19-SEP-2009 - 19-SEP-2009	08:00 - 16:00	A MACEO SMITH HIGH SCHOOL	10154066

RIGOROUS TASKS, PROJECTS, AND PRODUCTS IN SCIENCE, GRADES 9 - 12

Expected Outcome: In this course participants will 1) organize a calendar for students to implement steps toward completing activities for short term six weeks projects and long term science fair projects; 2) understand strategies and tips for helping students understand the Scientific method and inquiry; 3) review and complete Nature of Science mini-activities for students.

Audience: Grades 9 - 12 Science Teachers

Staff Development Credit: 7.0 Hours Compensatory Time/Mandatory PD Credit

Start and End Dates	Start and End Times	Location	Class Code
24-JUN-2009 - 24-JUN-2009	08:00 - 16:00	A MACEO SMITH HIGH SCHOOL	10154067
04-AUG-2009 - 04-AUG-2009	08:00 - 16:00	A MACEO SMITH HIGH SCHOOL	10154068
19-SEP-2009 - 19-SEP-2009	08:00 - 16:00	A MACEO SMITH HIGH SCHOOL	10154069

Science

SCIENCE DAY AT THE DALLAS ZOO

Expected Outcome: Science Day at the Dallas Zoo is a fun way for educators, parents, and students to discover their community's world of science--from tracking an ocelot through the wilderness to exploring the science behind gardening. By participating in each of the fun, hands-on activity stations throughout the Zoo, educators will find new and exciting ways to bring science back to their classroom. This is a free event. Register at www.dallaszooed.com.

Audience: This workshop is for educators who work with students in grades PK - 8

Staff Development Credit: 3.5 Hours Compensatory Time/Mandatory PD Credit

Start and End Dates	Start and End Times	Location	Class Code
26-SEP-2009 - 26-SEP-2009	10:00 - 14:00	DALLAS ZOO	10154091

SCIENCE LAB IN THE SCHOOLYARD, GRADES 4 AND 5

Expected Outcome: Participants will explore science process skills in Life and Earth Science while doing field investigations and discovery activities in an outdoor setting. These skills may be applied to the ordinary schoolyard or school garden. Teachers will explore ways to use the science journal to do on-going data collection projects such as weather and plant growth. They will learn how to use the outdoors with the science curriculum and the 5 E's. Participants will develop a model for a simple schoolyard garden/lab.

Audience: Grades 4 and 5 Science Teachers

Staff Development Credit: 7.0 Hours Compensatory Time/Mandatory PD Credit

Start and End Dates	Start and End Times	Location	Class Code
05-AUG-2009 - 05-AUG-2009	08:00 - 16:00	ENVIRONMENTAL EDUCATION CENTER	10154082
06-AUG-2009 - 06-AUG-2009	08:00 - 16:00	ENVIRONMENTAL EDUCATION CENTER	10154083

STARS--BIOLOGICAL CLOCKS

Expected Outcome: This session will inform teachers about current research topics and techniques, and; increase knowledge about current scientific topics to build a foundation for integration into the classroom.

Audience: Secondary Science Teachers Grades 9 - 12 Biology, Chemistry, & IPC

Staff Development Credit: 3.5 Hours Compensatory Time/Mandatory PD Credit

Start and End Dates	Start and End Times	Location	Class Code
02-NOV-2009 - 02-NOV-2009	17:30 - 21:00	UT SOUTHWESTERN MEDICAL CENTER AT DALLAS 5323 HARRY HINES DALLAS	10154099

STARS--NANOTECHNOLOGY

Expected Outcome: This session will inform teachers about current research topics and technology, and increase knowledge about current scientific topics to build a foundation for integration into the classroom.

Audience: Secondary Science Teachers Grades 9 - 12 Biology, Chemistry, & IPC

Staff Development Credit: 3.5 Hours Compensatory Time/Mandatory PD Credit

Start and End Dates	Start and End Times	Location	Class Code
14-SEP-2009 - 14-SEP-2009	17:30 - 21:00	UT SOUTHWESTERN MEDICAL CENTER AT DALLAS 5323 HARRY HINES DALLAS	10154097

Science

STARS--RADIATION RISKS AND SPACE TRAVEL

Expected Outcome: This session will inform teachers about current research topics and techniques, and; increase knowledge about current scientific topics to build a foundation for integration into the classroom.

Audience: Secondary Science Teachers Grades 9 - 12 Biology, Chemistry, & IPC

Staff Development Credit: 7.0 Hours Compensatory Time/Mandatory PD Credit

Start and End Dates	Start and End Times	Location	Class Code
03-OCT-2009 - 03-OCT-2009	09:00 - 16:00	UT SOUTHWESTERN MEDICAL CENTER AT DALLAS 5323 HARRY HINES DALLAS	10154098

SUMMER SCIENCE INSTITUTE: FIELD RESEARCH (DALLAS ZOO)

Expected Outcome: In this week-long workshop, educators will explore and develop their wildlife science skills through observation and data collection exercises and receive hands-on applications for the classroom. They will spend the week with our researchers and science staff, and learn the "behind-the-scenes" story! They will also receive a unique behind the scenes tour to enhance their experience! Cost \$50, register at www.dallaszooed.com. TEACHERS MUST PAY THEIR FEE/COST.

Audience: This workshop is for educators who work with students in grades 8 - 12

Staff Development Credit: 7.0 Hours Compensatory Time/Mandatory PD Credit

Start and End Dates	Start and End Times	Location	Class Code
27-AUG-2009 - 31-AUG-2009	09:00 - 15:30	DALLAS ZOO	10154090

THINKING THROUGH A LESSON IN SCIENCE, GRADES 4 AND 5

Expected Outcome: In this course participants will use Curriculum Planning Guides and the Principles of Learning to better understand how to develop engaging and rigorous tasks for the diverse classroom; and develop tasks using CORE LABS and Instructional Resources that meet the needs of an inclusion classroom comprised of advanced learners, struggling learners, and limited English proficient students.

Audience: Grades 4 and 5 Science Teachers

Staff Development Credit: 7.0 Hours Compensatory Time/Mandatory PD Credit

Start and End Dates	Start and End Times	Location	Class Code
18-JUN-2009 - 18-JUN-2009	08:00 - 16:00	A MACEO SMITH HIGH SCHOOL	10154049
28-JUL-2009 - 28-JUL-2009	08:00 - 16:00	A MACEO SMITH HIGH SCHOOL	10154050
17-OCT-2009 - 17-OCT-2009	08:00 - 16:00	A MACEO SMITH HIGH SCHOOL	10154051
24-NOV-2009 - 24-NOV-2009	08:00 - 16:00	A MACEO SMITH HIGH SCHOOL	10154052

Science

THINKING THROUGH A LESSON IN SCIENCE, GRADES 6 - 8

Expected Outcome: In this course participants will use Curriculum Planning Guides and the Principles of Learning to better understand how to develop engaging and rigorous tasks for the diverse classroom; and develop tasks using CORE LABS and Instructional Resources that meet the needs of an inclusion classroom comprised of advanced learners, struggling learners, and limited English proficient students.

Audience: Grades 6 - 8 Science Teachers

Staff Development Credit: 7.0 Hours Compensatory Time/Mandatory PD Credit

Start and End Dates	Start and End Times	Location	Class Code
18-JUN-2009 - 18-JUN-2009	08:00 - 16:00	A MACEO SMITH HIGH SCHOOL	10154053
28-JUL-2009 - 28-JUL-2009	08:00 - 16:00	A MACEO SMITH HIGH SCHOOL	10154054
17-OCT-2009 - 17-OCT-2009	08:00 - 16:00	A MACEO SMITH HIGH SCHOOL	10154055
24-NOV-2009 - 24-NOV-2009	08:00 - 16:00	A MACEO SMITH HIGH SCHOOL	10154056

THINKING THROUGH A LESSON IN SCIENCE, GRADES 9 - 12

Expected Outcome: In this course participants will use Curriculum Planning Guides and the Principles of Learning to better understand how to develop engaging and rigorous tasks for the diverse classroom; and develop tasks using CORE LABS and Instructional Resources that meet the needs of an inclusion classroom comprised of advanced learners, struggling learners, and limited English proficient students.

Audience: Grades 9 - 12 Science Teachers

Staff Development Credit: 7.0 Hours Compensatory Time/Mandatory PD Credit

Start and End Dates	Start and End Times	Location	Class Code
18-JUN-2009 - 18-JUN-2009	08:00 - 16:00	A MACEO SMITH HIGH SCHOOL	10154057
28-JUL-2009 - 28-JUL-2009	08:00 - 16:00	A MACEO SMITH HIGH SCHOOL	10154058
17-OCT-2009 - 17-OCT-2009	08:00 - 16:00	A MACEO SMITH HIGH SCHOOL	10154059
24-NOV-2009 - 24-NOV-2009	08:00 - 16:00	A MACEO SMITH HIGH SCHOOL	10154060

USING INQUIRY IN THE SCIENCE CLASSROOM (REGION 10), GRADES 4 - 8

Expected Outcome: The 5-E model was developed for instruction in the Science classroom, but is also an effective model for all classrooms. The Engage Phase creates interest and curiosity. Learning continues with Exploration, Elaboration, and Evaluation. Activities will center around each of the 5 E phases. Teachers are encouraged to bring a lesson plan that they wish to convert to the 5 E model.

Audience: Grades 4 - 8 Science Teachers

Staff Development Credit: 7.0 Hours Compensatory Time/Mandatory PD Credit

Start and End Dates	Start and End Times	Location	Class Code
15-JUN-2009 - 15-JUN-2009	08:00 - 16:00	A MACEO SMITH HIGH SCHOOL	10154079

Science

WILD ABOUT SCIENCE AT THE DALLAS ARBORETUM

Expected Outcome: Elementary classroom teachers will explore new ways to enrich their science classes with engaging, hands-on, interactive activities. Cost \$10. Call Angelica at: 214-515-6540 or e-mail: aborrego@dallasarboretum.org to register. TEACHERS MUST PAY THEIR FEE/COST. TEACHERS MUST ALSO REGISTER IN ORACLE.

Audience: Grades 4 - 6 Science Teachers

Staff Development Credit: 7.0 Hours Compensatory Time/Mandatory PD Credit

Start and End Dates	Start and End Times	Location	Class Code
19-JUN-2009 - 19-JUN-2009	09:00 - 16:00	DALLAS ARBORETUM 8617 GARLAND RD, DALLAS, TX 75218	10154092