National Aeronautics and Space Administration

EDUCATOR RESOURCE CENTER

ERC

Spring 2009

National Aeronautics and
Space Administration

John C. Stennis Space Center
Educator Resource Center
Building 2105
Stennis Space Center, MS 39529-6000

Please Route to All Educators

NASA Stennis Space Center Spring 2009 Educator Workshop Schedule

Going on a Lunar Adventure! CEUs: 0.5
Thursday, February 5, 2009 Grades: K-4

All children like adventure. Come take a learning tour of the Moon. Using NASA curriculum materials, teachers will make a variety of activities such as edible Moon phases and Moon craters. Be prepared for a fun-filled day of make-and-take projects.

Let the Sun Shine In! CEUs: 0.5
Wednesday, February 11, 2009 Grades: K-12

Come celebrate our very own star, the sun, through this years Sun-Earth Day 2009 theme: "Our Sun: Yours to Discover". Using NASA curriculum support materials, educators will develop a better understanding of the processes which govern the sun's influence on our solar system. Participants will build a solar car suitable for racing to take back to their classroom.

No Boundaries …. Exploring Science, Technology and Math the NASA Way CEUs: 0.5
Thursday, February 12, 2009 Grades: 5-8

NASA has been exploring with a "No Boundaries" attitude for 50 years, from our own planet Earth, to the Moon, to Mars and beyond. Exploring new worlds, whether it's Jamestown in 1609 or the Moon in 1969, will be the theme of the day as educators participate in engaging hands-on activities that relate science, technology and math to exploration the NASA way.

Space Crafts from Astro Camp CEUs: 0.5
Wednesday, February 18, 2009 Grades: K-4

You can now bring some of Astro Camp's fun-filled activities to your class. Through hands-on "Space Crafts" using NASA educational resources, participants will learn how to apply math to inquiry-based science activities. Come and learn some of Astro Camp's tried and true experiments to help your children explore, discover, and understand the worlds of science and math.

Newton's Apple CEUs: 0.5
Thursday, March 5, 2009 Grades: 5-8

Sir Isaac Newton will be the theme of the day as educators explore Newton's Three Laws of Motion and Law of Gravity using NASA educational resources. Participants will model a variety of discrepant events, demonstrations with toys and inquiry based hands-on activities that will bring Newton's Laws to life in their classroom. Participants will construct a Newton's Cradle (momentum balls) and a Newton car to take back to their classroom.

Spaced Out in Our Solar System CEUs: 0.5
Thursday, March 12, 2009 Grades: 4-8

Take a learning tour of our solar system in this inquiry-based STEM workshop. Using NASA curriculum support resources, teachers will develop a better understanding of our neighbors in space and their important relationship to Earth. The focus will be on past, current, and future NASA missions that are an integral part of the exploration of our neighbors in the solar system and beyond. Pack your bags and get ready for this exciting education adventure through our solar system.

Math Made Easy CEUs: 0.5
Tuesday, March 24, 2009 Grades: K-4

Looking for ways to make math enjoyable for your students? Come join a day of fun doing math projects. Using NASA curriculum materials, teachers will make a variety of activities such as adding and subtracting with building blocks and understanding the value of teamwork. The day will be filled with easy make-and-take math lessons and activities that your students will enjoy.

Wild About Weather CEUs: 0.5
Thursday, April 2, 2009 Grades: 5-9

Are your students wild about learning weather? This workshop will introduce educators to *Meteorology*, NASA's new educator guide with hands-on activities that will have your students wild about weather concepts like air pressure, relative humidity and temperature. Participants will construct a weather vane and an anemometer to bring back to their classroom. Bring a 2-liter plastic soda bottle to this wet and wild workshop.

Blast Off into Learning CEUs: 0.5
Wednesday, April 8, 2009 Grades: K-8

You don't have to be a rocket scientist to have a blast at this workshop! Rockets will be the theme of the day as participants are introduced to NASA's new and revised educator guide *Rockets*. Participants will design, build, and launch simple rockets in order to develop a better understanding of the basic principles of force and motion. The NASA Digital Learning Network (DLN) will also be showcased with a live, interactive event featuring the Constellation Program that will bring humans back to the moon.

Creative Computer Learning Games CEUs: 0.5
Wednesday, April 22, 2009 Grades: K-8

Creatively integrate technology into your classroom with interactive computer games. NASA provides a wealth of computer learning resources that are safe, fun and educational for your students. In addition to math and science skills, many computer games also teach reading and language arts. Helps meet state and national technology standards and addresses learning across the curriculum.

Mission Mathematics CEUs: 0.5
Thursday, April 23, 2009 Grades: 6-8

Get your students excited about math using outer space! This workshop will contain activities from the *Mission Mathematics* workbook created by NASA and NCTM. This educator guide translates the NASA experience into hands-on activities appropriate for young learners. If attending this workshop, place your order for the *Mission Mathematics* guide when registering through the ERC, no later than January 31, 2009.

Space Farming CEUs: 0.5
Tuesday, April 28, 2009 Grades: 4-8

One of the many challenges of future space missions to the Moon and Mars will be to provide enough food for voyages that will last months and years at time. The next generation of NASA astronauts will have to be "space farmers" as well as space explorers. How do you grow a garden in space? Participants will learn the challenges of growing plants in space by designing a "Lunar Plant Growth Chamber." This workshop will provide many opportunities to construct models, gather ideas, lessons, and activities about plants that you can use in your classroom.

LEGO-neering: LEGOs™ Are For Learning! CEUs: 0.5
Thursday, April 30, 2009 Grades:K-6

LEGOs™ are for learning, just don't tell your students! Your class will think that they are playing and having fun, but you will know that they are learning valuable lessons in science and engineering. LEGOs™ can be used in a variety of engaging activities that will involve students in the problem solving process of engineering design. Workshop participants will model activities such as designing a sturdy wall, building a model house, and choosing the strongest shape for a chair. Teachers will also be able to experiment with and program the new LEGO™ NXT™ robotics system. Training NASA's future engineers begins in the classroom with you!

View the Workshop Schedule online at http://education.ssc.nasa.gov/workshops.asp

February 2009

MON	TUE	WED	THU	FRI
2	3	4	5	6
			Going on a Lunar Adventure! (K-4)	
9	10	11	12	13
		Let the Sun Shine In! (K-12)	No Boundaries ... Exploring Science, Technology and Math the NASA Way (5-8)	
16	17	18	19	20
		Space Crafts from Astro Camp (K-4)		

March 2009

MON	TUE	WED	THU	FRI
2	3	4	5	6
			Newton's Apple (5-8)	
9	10	11	12	13
			Spaced Out in Our Solar System (4-8)	
16	17	18	19	20
23	24	25	26	27
	Math Made Easy (K-4)			

April 2009

MON	TUE	WED	THU	FRI
		1	2	3
			Wild About Weather (5-9)	
6	7	8	9	10
		Blast Off into Learning (K-8)		
13	14	15	16	17
20	21	22	23	24
		Creative Computer Learning Games (K-8)	Mission Mathematics (6-8)	
27	28	29	30	
	Space Farming (4-8)		LEGO-neering: LEGOs Are For Learning! (K-6)	

Students participate in the 2008 FIRST Robotics Regional Tournament held in March 2008 at the Morial Convention Center in New Orleans. This year's contest will be held on the University of New Orleans campus.

FIRST Robotics Regional Competition Set for New Orleans

Robots can vacuum your carpet, perform surgery, build automobiles and explore the surface of Mars!

But what can robots built by local high school students do?

Find out at the 2009 FIRST Robotics Competition in New Orleans on March 20-21, 2009. Admission is FREE.

See robots performing amazing feats of skill in a sports-like atmosphere. Come cheer for the robotics teams.

NASA will sponsor the FIRST (For Inspiration and Recognition of Science and Technology) Robotics Competition Regional event at the University of New Orleans, Lake Front Arena, Friday, March 20, and Saturday, March 21, 2009.

This is a wonderful opportunity for your students to see technology and innovation at work.

The robots are built and driven by students from local schools.

In addition to competition, FIRST emphasizes "gracious professionalism" and teamwork.

For more information call 228-688-3653 or go to www.usfirst.org.

NASA explores for answers that power our future!

www.nasa.gov

It's time to register for free educator workshops at Stennis Space Center

How to Register for Free Workshops At John C. Stennis Space Center

To make reservations, call the NASA Educator Resource Center at 800-237-1821 and select option 2, or call 228-688-3338. Please call between 7 a.m. and 3 p.m. Monday through Friday. Unless otherwise noted, all 0.5 CEU workshops will be held 8:30 a.m. - 2:30 p.m. National and state education standards will be addressed in science, technology, engineering, mathematics and geography in the workshops. For more information, e-mail SSC-nasaERC@mail.nasa.gov.

Notes on Stennis Space Center Educator Resource Center Workshops

Stennis Space Center ERC personnel consistently strive to ensure as many teachers as possible have access to SSC educator workshops. In order to maximize attendance at all workshops and events, please note the adjustments made to our registration procedures: Teachers may register for no more than three (3) workshops per semester and may only make registrations for themselves. If a participant is unable to attend a workshop, he or she must call the ERC at 228-6883338 as soon as possible. Failure to notify the ERC of a registration cancellation will affect a registrant's ability to participate in future workshops and programs.

For security purposes, you are required to check in at either the north or south reception center upon arrival at Stennis Space Center. A valid photo ID is required. Please allow sufficient time for this process when you arrive.

CEU Information

Mississippi and Louisiana educators are able to renew their teaching certificates with CEU credits from approved workshops. Unless otherwise noted, educators will receive 0.5 CEU credits for each 5-hour workshop conducted on-site. You must be present for the full workshop to earn CEU credit. The ERC maintains all CEU records. The ERC issues a certificate of attendance when the educator completes a 5-hour workshop. This certificate, along with any other CEU documentation, should be mailed by the teacher to the State Department of Education at the time of renewal. To obtain a copy of your CEU credits, a written request must be sent to the ERC.

New Safety Regulation

Please note that the use of hand-held communication devices (cell phones, two-way radios, etc.) is prohibited while driving on-site at Stennis Space Center.