

**GK-12 Summer Field Science Program**  
**(for students entering grades 3-4)**  
**Sponsors: UTMSI GK-12, Port Aransas ISD, and the City of Port**  
**Aransas Parks and Recreation**  
**Schedule (updated 6/04/09)\***  
**10 AM - Noon**

**Master Teacher: Marilyn Cook (PAISD)**

*Thank you to our Co-Sponsors: Coastal Bend Bays and Estuaries Program, Gulf of Mexico Alliance (NOAA), Port Aransas Boatmen, Port Aransas Kiwanis, and the Port Aransas Education Foundation*

**Week 1:** June 15-19, 2009

**Topic:** Tracing a Drop of Water Inland to the Coast

**Teaching Assistants:** Mindy Craig, Ellen Julstrom

**GK-12 Fellows:** George Adams, Geoff Hensgen, Chris Wilson

**Guest Scientist:** Dr. John Fucik, Katie Roussy

**Daily Schedule**

Labs each day with emphasis on inquiry, data collection, recording and communicating, (our lessons are written in the 5 E model).

Texas Essential Knowledge and Skills to be covered include:

Grade 3 B. 3.1 A, 3.2 B, 3.4 A, 3.8 A C D, 3.9 A, 3.11 A

Grade 4 B. 4.1 A, 4.2 B D E, 4.3 C, 4.4 A, 4.6 A, 4.8 A,B, 4.11 B

**In-Class Days (Mondays, Wednesdays, and Fridays)**

10:00 AM. Introduce focus activity for the topic of the week. Display items on lab table with 3 questions to answer (changed daily)

10:10-10:30 Discuss focus objects and trade book

10:30-10:45 Outdoor activity for data collection and recording

10:45-11:00 Record data in lab journal and on class graph

11:00 – 11:30 Guest speaker with questions/lab activity

11:30-11:45 Lab activity

11:45-12:00 Computer lab to evaluate and enter S'COOL data

**Field trip days (Tuesdays and Thursdays)**

10:00AM - 10:10 AM. Focus activity

10:15 Depart on local field trip

11:30 Return and record observations in lab journal; follow up lab activities from field trip

*For additional information: Contact Flora Buerger, Program Coordinator*

*[flora.buerger@mail.utexas.edu](mailto:flora.buerger@mail.utexas.edu)*

**Week 1 Theme:**

Students will learn about the fresh and salt water that flows into our local bays and estuaries as well as the native plants of Mustang Island. Weather will be a prominent topic. Field trip visits are scheduled for the Mustang Island State Park and the Wetlands Education Center at the University of Texas Marine Science Institute.

**Other Activities:**

In addition to daily lab activities and work in the field students will be involved in a national research study on career aspirations introduced by *Science and Children*, a peer reviewed journal of the National Science Teachers Association (interview questions below). Students will also be a part of S'COOL, participating with students all over the world as Student Cloud Observers. Students in this project are part of the scientific team as they report cloud data to NASA National Aeronautics and Space Administration. The data that the student collect will help NASA scientists answer the experimental question of what is the effect of Clouds on Earth's Climate? Students will do this observing at a time when CERES (Clouds and the Earth's Radiant Energy System) satellite instrument passes over our area.

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**Schedule (updated 5/07/09)\***  
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**Week 1:** June 22-26, 2009

**Topic:** Life Aquatic! Adaptations and Ecology

**Teaching Assistants:** Mindy Craig, Ellen Julstrom

**GK-12 Fellows:** George Adams, Geoff Hensgen, Chris Wilson

**Guest Scientist:** Linda Fuiman, Flora Buerger

**Daily Schedule**

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**Week 2 Theme:**

Activities focus on ecology and diverse adaptations of plants and animals in the Coastal Bend. Students will tour the local waste water treatment plant and birding center as well as the Wetlands Education Center at UTMSI.

**Other Activities:**

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**Week 1:** July 6-10, 2009

**Topic:** Our Beaches and Bays

**Teaching Assistants:** Mindy Craig, Ellen Julstrom

**GK-12 Fellows:** George Adams, Geoff Hensgen, Chris Wilson

**Guest Scientist:** Dr. John Fucik, Dr. Kiersten Madden

**Daily Schedule**

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**Week 3 Theme:**

Students will visit the Animal Rehabilitation Keep (ARK), tour the ferry operations, and the Pier Lab at UTMSI. Activities will focus on the beaches and bays, and students will explore the jetties and press seaweed samples.

**Other Activities:**

In addition to daily lab activities and work in the field students will be involved in a national research study on career aspirations introduced by *Science and Children*, a peer reviewed journal of the National Science Teachers Association (interview questions below). Students will also be a part of S'COOL, participating with students all over the world as Student Cloud Observers. Students in this project are part of the scientific team as they report cloud data to NASA National Aeronautics and Space Administration. The data that the student collect will help NASA scientists answer the experimental question of what is the effect of Clouds on Earth's Climate? Students will do this observing at a time when CERES (Clouds and the Earth's Radiant Energy System) satellite instrument passes over our area.