

## CCE LTER- Blog Webquest Lesson Plan

**Teacher:** *Mrs. Jennifer Ogo: Kearny High School SCT*

**Date:** *January 2013*

**Subject / grade level:** *Marine Science- High School*

**Materials:** *Computer access (internet), copies of worksheet*

**Essential Standards and Clarifying Objectives:** *Science Content and Standards for Ocean Literacy 1C, 1F, 1H, 3A, 3C, 3E, 3F, 4A, 5A-H, 6G, 7A-F*

**Lesson objective(s):** *The objectives of this blog webquest is that students will understand some of the processes involved in oceanographic exploration and be able to appreciate oceanography from the perspective of the scientists. Students will be exposed to **specific content** and **career possibilities** in oceanography.*

**Differentiation strategies to meet diverse learner needs:**

*Students with special needs and English learners can be partnered with a native speaker or stronger student to work in pairs reading the blog aloud. They can then discuss, collaborate and come to an agreement on the correct answers.*

### **ENGAGEMENT**

**Describe how the teacher will capture students' interest:**

Engage the students by asking the essential question: "*How do oceanographers collect data from the ocean?*". Have students (*in groups of 3-4*) discuss ways they think scientists can collect data at sea. Students will come up with a list of at least **5 ways/pieces of data** that scientists can collect from the ocean. Have the students share out their answers to the whole class.

**What kind of questions should the students ask themselves after the engagement?:**

Students can ask themselves about other ways scientists can explore the ocean. Did they confirm the ideas that they brainstormed in the beginning? Were there any other ideas that were not confirmed with the blog? Would they be interested in pursuing a career in oceanography or going on a research cruise.?

### **EXPLORATION**

**Describe what hands-on/minds-on activities students will be doing:**

Students will be exploring a blog created by a high school science teacher on a research exploration cruise on the CCE. The students will use the internet to read the blog and answer questions.

**List "big idea" conceptual questions the teacher will use to encourage and/or focus students' exploration:**

The big ideas are: *ocean exploration, scientific methods/techniques and data collection*

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### EXPLANATION

**Student explanations should precede introduction of terms or explanations by the teacher. What questions or techniques will the teacher use to help students connect their exploration to the concept under examination?**

After students complete the webquest, the teacher should have students share out their answers (Q & A) style with the other students in their group. After sharing out, the teacher should solicit answers from students in a whole-class exercise.

### ELABORATION

**Describe how students will develop a more sophisticated understanding of the concept:**

The blog is excellent because it provides content in an interesting and **personalized** manner. Students will **learn new vocabulary and scientific content** in context of the blog while reading about the teacher's experiences. The photos, explanations and external website links help to connect the learning to the specific content.

### EVALUATION

**How will students demonstrate that they have achieved the lesson objective?:**

Students will complete the worksheet after reading the blog and will answer specific questions about the blog to demonstrate that they read and understood it. In addition, they will share their answers with other students to clarify and reinforce the learning.