

Part I – Ocean Explorers Web Quest Guide

Welcome, Ocean Explorers! Please proceed to the following Web site:

<http://oceanexplorer.noaa.gov/explorations/explorations.html>

1. List three places in the deep sea visited by ocean explorers within the past three years.
2. Now proceed to this Web site: <http://oceanexplorer.noaa.gov/edu/oceanage/welcome.html>.
There are many individuals studying the deep sea or involved with work done there. List at least five, and describe their fields of research or work they have done.
3. Describe what your day might be like if you were a marine mammal biologist.
4. In some ways, deep-sea explorers of modern times are similar to historic explorers. They are brave, curious men and women who are at the cutting edge of their field of interest. They are very unique individuals. One of the senior scientists interviewed on the OceanAGE Web page explains the difference between a submarine and a submersible. Find her name and record what she says about this difference.
5. What is the name of the fish ecologist who wanted to be an astronaut until he realized that the ocean was virtually unexplored and the other-worldly creatures that he wanted to see and study were living right here at home?
6. How do you think that exploring the deep sea is similar to exploring outer space?
7. Which ocean explorer traces his interest in ocean science to a vacation with his parents to the Florida Keys when he was five or six and encountered a manatee?
8. There is a big world waiting for you to explore it, and the technology to do so gets better every day. Yesterday's discoveries are today's necessities. Which explorer looks for marine plants and animals that produce chemicals that can be developed into drugs to treat human diseases?
9. As we learn more about Earth's ocean, we realize that even though the ocean is vast, its resources are limited and need protection. Which marine ecologist looks for "sweet spots" in the ocean, places where life is rich and abundant, and then works with governments and nonprofit organizations to secure protection of those resources for future generations?
10. Which ocean explorer was an insect dietician and sonar operator aboard a U.S. Navy submarine before becoming chief electronics technician aboard the NOAA Ship *Okeanos Explorer*?

Congratulations, Explorers! You have successfully navigated the Deep Sea Explorer Web Quest! Now you are ready for some quiet reflection on what you learned with your colleagues.

Tell your teacher that you are ready to begin Part II: Individual Exploration!





Part II – Individual Explorers Reflections Sheet

1. Reflect and write about differences and similarities between explorers of the past and modern day explorers. What types of hardships do both have in common?

2. Name some places that have been explored in modern times.

3. Name places that were explored during the early history of humans.

4. Name a place that you have explored. What was unique about it that you think another visitor to that site would not have noticed?

5. Name a place that you would like to explore. What do you think you would find there? Why?

6. Why is it important to document your explorations? What is your favorite way to remember your own adventures?

7. List a few of your science and exploration role models (alive or historic) and why they inspire you. On a sheet of notebook paper or on the computer, compose a letter to one of your science and exploration role models. Write something you would want them to know about you and why you consider them an inspiration.
