Background
The Integrated Ocean Drilling Program is one of the world’s largest international cooperative science programs. Nowhere is that fact more evident than on the decks of the JOIDES Resolution. Each expedition on this United States sponsored drilling vessel includes a diversity of people from all over the world. It is a very exciting experience to live and work with so many people of different cultures and customs. The cultural influences of the different nationalities on board can be seen in everything from the clothes people wear, to the food they eat and the movies they watch during their free time. And over the course of the average two-month expedition, everybody gets a unique view of the other cultures and worldviews. The JOIDES Resolution truly represents the whole world on a small ship in the middle of the ocean.

Learning Objectives
Students will be able to:
• Describe the cultural and geographic diversity of the people living and working on the JOIDES Resolution.
• List a few facts about the home countries of the participants, staff and crew.

Target Age: Grades K-12

Time: One class period

What To Do
1. Page 3 shows a list of all the people onboard the JOIDES Resolution and the jobs they did during the first School of Rock Expedition in 2005. They are grouped by home country and appear underneath their national flag. How many countries are represented by this list of participants, staff and crew? Which country has the greatest number of participants?

2. Page 4 shows the same national flags from Page 3 as well as a political map of the world. The countries that were represented on the JOIDES Resolution during the first School of Rock Expedition are shaded in blue. Answer the following questions using the map:
   a. How many different continents are the participants, staff and crew from? List these continents. Which continents are not represented?
   b. Draw a line from each national flag to the country it represents on the map. (Need help? Use the World Factbook at www.cia.gov/cia/publications/factbook/index.html to find the answers)
   c. Record the country name in the space provided by each national flag.
   d. The red dots on the map represent the location of the capital city of each of the shaded countries. Fill in the capital city names in the spaces provided.
   e. Using the compass rose on the map, identify the northernmost, southernmost, easternmost, and westernmost shaded countries on the map.

Extensions

1. Check out the United States Central Intelligence Agency’s (CIA) World Factbook (www.cia.gov/cia/publications/factbook/index.html) for more information about the countries represented on the JOIDES Resolution. Write down one fact about each country that you did not already know.

2. The Integrated Ocean Drilling Program is an international consortium of different funding partners. The United States of America and Japan are the lead countries, the European Consortium for Ocean Research Drilling (ECORD) is a contributing member, and the People’s Republic of China is an associate member. The USA, Japan, and a few of the countries in ECORD are already shaded on the map on page 4.

a. Find the countries that make up ECORD by visiting the ECORD Council webpage at www.ecord.org/c/council.php. Find and label these countries on the map. Find the location of the capital cities of each of the ECORD countries and label them on the map. Which ECORD member country is not technically a part of Europe?

b. Label the People’s Republic of China and its capital city on the map.

3. Browse the career profiles of many of the staff and crew that sailed on Expedition 312 at www.oceanleadership.org/education/deep-earth-academy/students/careers/.
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Integrated Ocean Drilling Program - School of Rock Expedition
Participants, Staff and Crew

Toru Fujiki - Technician

Philip Christie - Toolpusher/Core Tech.
Stephen Cowen - DP Operator
Michael Lynch - Chief Mechanic
Alwyn Lynn - Chief Engineer
Alexander Simpson - Master

Nicolaas Hurn - Chief Electrician
John Pretorius - Chief Electrician
Jurie Kotze - Technician
Peter Pretorius - Technician

Joe Attryde - Toolpusher/Core Tech
Dan Bregar - Educator
Calvin Buchholtz - Educator
Mike Cole - Sr. Materials Coordinator
Jerry Cook - Educator
Sharon Cooper - Educator
Lisa Crowder - Technician
Klayton Curtis - Technician
Jerry Embry - Chief Mate
Debra Faulkner - Educator
Laura Jo Fojtasek - Educator
Raymond Frank - Electrical Supervisor
Ronald Grout - Operations Superintendent
Ted Gustafson - Technician
Burney Hamlin - Technician
Heather Kortlandt - Educator
Michael Hodge - Technician
Dwight Hornbacher - Technician
Shannon Housley - Technician
Eric Jackson - Technician
Douglas Johnson - Assoc. Dir., USIO
Virginia Jones - Educator
Bryan Kennedy - Educator
Ann Klaus - Deputy Director, USIO
Mark Leckie - Scientist
Virginia Lowe - Technician
Wayne Malone - Offshore Installation Mgr.
Julie Marsteller - Educator
Matthew Niemitz - JOI Education Assoc.
Nick Parish - Driller
Leslie Peart - JOI Education Director
Michael Petersen - Technician
Alexander Roth - Technician
Scott Slough - Educator
Ramona Smith - Educator
Kristen St. John - Scientist
Charlie Watts - Driller
Paula Weiss - Technician
Brad Weymer - Technician
Mary Whaley - Educator
Robert Wheatley - Technician
Roberta Young - Educator

Trevor Cobine - Technician
Dwight Mossman - DP Operator

Nilo Amante - AB Seaman
Wilfredo Balonga - Floorman
Edwin Codilla - AB Seaman
Rodrigo Codilla - Floorman
Alejandro Cortez - Derrickman
Charlie Cuyo - AB Seaman
Bartolome Estoya - Welder
Samson Fadri - Assistant Driller
Dionisio Germo - Welder
Godofredo Hernandez - Physician
Larry Jarillas - Radio Operator
Rene Limjucio - 3rd Mate
Gregorio Magtanong - Floorman
Rolando Manzo - Oiler
Silverio Mayuga - Asst. Crane Operator
Rodolfo Pena - Ordinary Seaman
Saturnino Pepito - Floorman
Jose Portugal - Electrician
Fernando Punsalan - Assistant Driller
Marcelino Salaveria - Oiler
Miguel Servan - Motorman
Angelo Sotero - 3rd Assistant Engineer
Eduardo Tan - Floorman
Luisito Umandal - Floorman
Reynaldo Villar - Crane Operator
Albert Villarias - Assistant Mechanic
Juan Vito - Derrickman
Leonardo Yaun - AB Seaman

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