Strategies for Successful Adventure Learning

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Three Adventure Learning models are illustrated that encourage interactive and engaging connections between the research field and the classroom. Successful strategies have been field tested during land and sea-based adventures (including polar, temperate, and tropical zones).

Classroom Adventure Learning

Classroom activities incorporate outdoor education experiences that encourage students to explore the world using all of their senses.

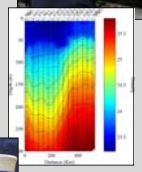
Incorporating real-time data encourages synthesis and higher order thinking skills.

Local scientists visit and share their research with students in the classroom.

Webcasts allow students in the classroom to talk with researchers in the field about scientific methods and concepts.

Field Research Adventure Learning

Teacher-Research programs (e.g., ARMADA, NOAA, C-MORE, Polar-TREC) provide field experiences where teachers can explore scientific concepts with scientists.



Teachers apply scientific concepts to cutting edge research and develop enhanced curriculum activities.

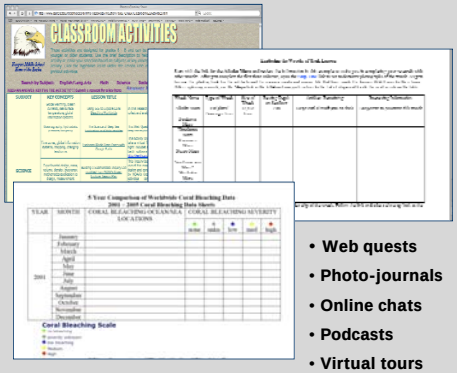
Students manipulate real scientific data to develop inferences and draw conclusions about their changing world.

Interactive activities engage students.

Remote Teaching Adventure Learning

Merging real-time adventures with classroom instruction bridges the gap between science and real-world applications.

Remote teaching to the classroom from the field fosters lifelong learning for teachers and students.



A variety of interactive learning strategies bring the world into the classroom.

- **Web quests**
- **Photo-journals**
- **Online chats**
- **Podcasts**
- **Virtual tours**
- **Discussion boards**
- **Phone calls from the field**

RATIONALE

My students often express misconceptions that, "All the good stuff has been discovered and there's nothing left for us to contribute to science."

In an effort to redirect students toward their future with science, principles and concepts are explored using cutting edge research that can be manipulated inside and outside the classroom.

Exploring new ideas renders Adventure Learning strategies that make science relevant, real, and very exciting.

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Miriam Sutton teaches 8th grade science in Carteret County, (located adjacent to the Atlantic Ocean) where she encourages students to find adventures in their own backyard and around the world.

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http://teacheratsea.noaa.gov/

http://cmore.soest.hawaii.edu/index.htm

www.carteretcountyschools.org/nms

www.armadaproject.org

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