



Oceanography for Landlocked Classrooms Currently Out of Print



IN A NUTSHELL

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SUBJECTS

Language Arts
Mathematics
Science

This monograph discusses the question of making marine education interesting and meaningful in the classroom, especially in located far from oceans or aquatic habitats, and also tries to provide the reader with some tools to do just that. The book includes chapters on such topics as technical considerations and resources for establishing and maintaining classroom aquaria, as well as fifteen activities designed to give students an understanding of marine biology, marine chemistry, geology, and physics. Some of the topics addressed in these activities include marine erosion, ground-water quality, and management of fishery populations. Each chapter is written by a different author, and formats for lessons vary. Nevertheless, each contains an explanation of the procedure, resources, follow-up activities, and illustrations or background, if necessary. Illustrations are diagrams, drawings, charts and woodcuts.

Grade Level	9-12
Length	104 pages
Date Published	1990

THE BOTTOM
LINE

“I’ve used this publication myself; I find it to be diverse and informative.”

What the REVIEWERS Said !	Key Characteristics	Strengths Noted	Other Considerations
	Fairness and Accuracy	Written by a variety of science educators from many states. Topics are referenced to professional journals.	Could further develop diverse cultural perceptions of the sea. Most background information dates from the 1980s.
	Depth	Encourages a multi-disciplinary approach to topics. Activities overlap other science and social science areas. Helps students see long-term consequences and effects of what goes on in the ocean.	
	Emphasis on Skills Building	Encourages creative and critical thinking skills. Simulation allows students to apply skills and knowledge.	
	Action Orientation	N o t A p p l i c a b l e .	
	Instructional Soundness	Encourages a variety of instructional methods. States goals for activities.	Lessons could better explain relevance of topics. Fails to address some ethical considerations regarding use of marine wildlife in education.
	Usability	Activities are clear and procedures easy to follow. Guide contains a 14-page resource section which includes maps, books, software, fiction, etc.	Contains very few illustrations or diagrams. Aquarium materials could become prohibitively expensive.

“An excellent introduction to the many and varied issues of sea education.”

“Provided a range of options to act as springboards for developing activities that are germane and feasible to a specific situation.”