



BIBLIOGRAPHY

LIFE WITH PAGOO

FOR SEA: Investigating Marine Science - Grade 5

This bibliography has been selected specifically for *Life With Pagoo - Grade Five*. A few of the titles listed are out of print, but worthwhile enough for you to check for them in your school and public libraries.

RESOURCES FOR STUDENT INFORMATION

ALLIGATORS TO ZOOPLANKTON; A DICTIONARY OF WATER BABIES. Les Kaufman and staff of the New England Aquarium. Watts. 1991.

Written in dictionary form, this book showcases some of the most bizarre water animal baby stories. Each entry includes information about the number of species, physical size, habitat, and the special characteristics of each animal.

CHAINS, WEBS AND PYRAMIDS: THE FLOW OF ENERGY IN NATURE. Laurence Pringle. Crowell. 1975.

Food chain dynamics are described. Includes discussion of marine and salt marsh chains in easy to understand text. Clear illustrations and charts are by Jan Adkins.

COASTAL RESCUE: PRESERVING OUR SEASHORES. Christina G. Miller and Louise A. Berry. Atheneum. 1989.

Describes different types of coasts as threatened ecosystems; how development has destroyed plant and animal life. Discusses ways to protect these resources. Black and white photographs and diagrams.

DISCOVERING CRABS AND OYSTERS. Jill Bailey. Bookwright Discovering Nature. 1987.

Describes many species of crabs and lobsters. Discusses and illustrates with Oxford Scientific Film photographs the anatomy, behaviors and life cycles of these invertebrates.

HERMIT CRABS. Sylvia A Johnson. Lerner. 1989.

The physical characteristics and habits of these seashore animals in their natural environment is described and pictured in color photographs and drawings.

HOMES IN THE SEA: FROM THE SHORE TO THE DEEP. Jean H. Sibbald. Dillon Ocean World Library. 1986.

An introduction in words and color photos to the environmental requirements of various undersea animals.

LIFE IN A TIDAL POOL. Alvin and Virginia Silverstein. Little. 1990.

In this description of the ecology of a tide pool, the interaction and interdependence of the plants and animals is discussed. Black and white drawings.

MEADOWS IN THE SEA. Alida Malkus. World. 1960.

Clear descriptions and drawings of phytoplankton and zooplankton and their importance in food chains and webs.

OCTOPUS. Carol Carrick. Clarion. 1978.

In this narrative, the life cycle of a female octopus is described in detail. The text is enhanced by Donald Carrick's colored art work.

OIL SPILLS: DAMAGE, RECOVERY, and PREVENTION. Laurence Pringle. Morrow. 1993.

An excellent resource for developing an appreciation of the role of petroleum in our lives and understanding the severity of oil spills. The complex effects of oil spills, as well as procedures needed to prevent further accidents are presented.

PLANKTON: DRIFTING LIFE OF THE WATERS. Julian May. Holiday. 1972.

Simple descriptions of plant and animal plankton in their various forms with emphasis on their role in food chains. Color illustrations extend the text.

THE ROCK POOL. David Ballamy. Clarkson Potter Our Changing World. 1988.

In narrative form, the animals and plants of a rock pool are described as they co-exist in their environment. The disastrous results which occur when an oil spill washes ashore are realistically portrayed. The color illustrations and text depict the changing scene with vivid clarity and emphasize the relationship of humans with the natural world.

SEA CREATURES DO AMAZING THINGS. Arthur Myers. Random. 1981.

Focusing on the unusual behaviors and physical characteristics of marine creatures, this informal approach to the variety of life in the sea is appealing.

SEA OTTER RESCUE. Roland Smith. Penguin Books. 1990.

The rescue of sea otters following the 1989 oil spill in Valdez, Alaska is described in words and pictures.

SEASHORE. Steve Parker. Eyewitness Book, Knopf. 1989.

Three-dimensional photographs and facts about life at the seashore introduce the animal inhabitants of the seashore in an attractive photo essay.

SEASHORES. Lynne M. Stone. Rourke Ecozones. 1989.

Describes the ecology and biological life of seashores, including zonation, tides, flow of energy and the need to protect these fragile areas. Color photos illustrate the text.

SEA STARS AND THEIR KIN. Herbert S. Zim. Morrow. 1976.

Various types of sea stars are discussed, including their feeding habits, growth and reproductive cycles.

STRANGE EATING HABITS OF SEA CREATURES. Jean H. Sibbald. Dillon Press. 1986.

Color photographs and text illustrate the interdependence of sea creatures as demonstrated by their eating habits. Includes a discussion food chains.

TENTACLES: THE AMAZING WORLD OF OCTOPUS, SQUID, and THEIR RELATIVES. James Martin. Crown. 1993.

Careful drawings and amazing color photographs accompany a spirited text portraying the reclusive lives of these intelligent creatures.

TIDEPOLS. Diana Barnhart and Vicki Leon. Blake Publishing. 1989.

A description of tide pool habitat and inhabitants with beautiful, large color photographs.

WATCH THE TIDES. David Greenhood. Holiday. 1961.

Very simple explanation of high and low tide. The drawings use some color and include diagrams of the sun, moon, and earth.

WHERE THE WAVES BREAK: LIFE AT THE EDGE OF THE SEA. Anita Malnig. Carolrhoda. 1985.

Excellent color photographs integrated with the interesting text provide information about many of the marine animals to be found along the edge of the sea.

RESOURCES FOR LITERATURE INTEGRATION

Please be aware that in the more fanciful of these titles, the science content may not be accurate.

THE CRAB THAT PLAYED WITH THE SEA. Rudyard Kipling. Macmillan. 1982.

A *Just So Story* of why the crab came to live both in the sea and on land, why it molts, and why the moon governs the tides. A classic, this version is beautifully illustrated by Michael Foreman.

MY VERY OWN OCTOPUS. Bernard Most. Harcourt Brace Jovanovich. 1980.

A fanciful story of a boy longing for his very own octopus. All the things the octopus could do are illustrated in full color.

NIGHT OF GHOSTS AND HERMITS: NOCTURNAL LIFE ON THE SEASHORE. Mary Stolz. Harcourt. 1985.

In this lyrical narrative, the reader learns scientific information about the nocturnal activities of seashore creatures. The text is illustrated with appropriate gray-tone drawings.

WATERMAN'S BOY. Susan Sharpe. Bradbury Press. 1990.

Two boys from a small town on the Chesapeake Bay help a scientist interested in cleaning up the water for the benefit of animals, plants, and people, while risking parental disapproval of people with too much education and of outsiders' interference in their means of earning a living.

WHY THE CRAB HAS NO HEAD: AN AFRICAN TALE. Barbara Knutson, reteller. Carolrhoda. 1987.

Crab's excessive pride meets with disfavor from his creator in this African folktale. Told with charm and illustrated by the author in striking black and white prints.

WHY THE TIDES EBB AND FLOW. Joan Chase Bowden. Houghton Mifflin. 1979.

A folktale explaining why the sea has tides. A delightful "just-so" story. Marc Brown's illustrations, evoking an African setting, enhance the telling of the tale.

THE WORLD THAT JACK BUILT. Ruth Brown. Andersen Press. 1990.

This powerful picture book, based on a well-known rhyme, carries an important environmental message. Beautifully illustrated in color by the author.

POETRY

A CHILD'S TREASURY OF SEASIDE VERSE. Mark Daniel, (comp.). Dial. 1991.

A collection of verses about the sea from Byron, Shakespeare, Whitman and other British and American writers of the 19th and early 20th centuries.

ALL THE SMALL POEMS. Natalie Worth. Farrar. 1987.

These small poems of familiar, ordinary subjects are perfectly complemented by Natalie Babbitt's small black and white drawings.

PIPING DOWN THE VALLEYS WILD. Nancy Larrick. Dell. 1968.

A wonderful collection of poems including many relating to the sea and shore.

THE RANDOM HOUSE BOOK OF POETRY. Jack Prelutsky, (comp.). Illustrated by Arnold Lobel. Random House. 1983

A treasury of 572 poems, many with a marine theme.

THE SEA IS CALLING ME. Poems selected by Lee Bennett Hopkins. Harcourt. 1986.

A collection of poems pertaining to the sea and seashores. Each poem is appropriately illustrated in soft colors.

RESOURCES FOR TEACHERS & STUDENTS

Included are books, curricula, media resources, equipment, posters, etc. The books in this list present further information in a more difficult text; even so, many of them will be enjoyed by children for the illustrations and photographs.

BOOKS

CRABS. Sylvia Johnson. Lerner. 1982.

The interesting body parts of the crab, the stages of its life cycle and the process of molting are among the topics discussed and shown in fine color photographs.

COMMON SEAWEEDS OF THE PACIFIC COAST. Robert J. Waaland. Pacific Search. 1977.

Introduces many seaweeds from the intertidal algae to the subtidal kelp forests. Includes seaweed culture, conservation and human uses. Black and white diagrams and drawings and color photographs.

EXPLORING THE SEASHORE IN BRITISH COLUMBIA, WASHINGTON AND OREGON. Gloria Snively. Gordon Soules Book Publishers. 1978.

A field guide that includes plants and animals of the intertidal; arranged by habitat, beach type, and tidal zone. A very readable, “user-friendly” guide that simplifies identification, stressing understanding of how the organisms are “equipped to live in their world”.

A GUIDE TO MARINE COASTAL PLANKTON AND MARINE INVERTEBRATE LARVAE. Deboyd Smith. Kendall/Hunt. 1977.

This comprehensive guide to marine plankton has a dichotomous key and is clearly illustrated with black and white plates and simple line drawings.

KEEPERS OF THE EARTH: NATIVE AMERICAN STORIES AND ENVIRONMENTAL ACTIVITIES FOR CHILDREN. Michael J. Caduto and Joseph Bruchac. Fulcrum. 1988.

A combination of Native American legends and related activities that help young people understand our natural world and our relationships with it includes section on water which contains stories and activities particularly well-suited to marine science. Illustrated in black and white.

THE MARINE BIOLOGY COLORING BOOK. Thomas M. Niesen. Barnes and Noble. 1982.

An introduction to the major marine environments and their inhabitants. Coloring plates illustrate the organisms in detail as the text explains their life cycles and interactions.

PACIFIC INTERTIDAL LIFE. Ron Russo and Pam Olhausen. Nature Study Guide. 1981.

A very usable, affordable guide to the organisms of rocky reefs and tide pools of the Pacific coast.

PACIFIC SEASHORES: A GUIDE TO INTERTIDAL ECOLOGY. Thomas Carefoot. University of Washington Press. 1983.

A guide describing the evolution of the coastlines, water movement, the distribution and interaction of plants and animals, mariculture and pollution. Contains many black and white drawings and some color photos.

PLANTS AND ANIMALS OF OREGON'S ROCKY INTERTIDAL HABITAT. Office of Public Affairs, ODFW, P.O. Box 59, Portland, OR 97207.

A wonderful tide pool resource for teachers at a very low price! Includes 49 full color photos with lots of information and illustrations of rocky intertidal plants and animals.

THE SEASIDE NATURALIST: A GUIDE TO NATURE STUDY AT THE SEASHORE. Deborah A. Coulombe. Prentice. 1984.

Written for the amateur, this is a combined field guide and introductory marine biology text. Illustrated by the author with black and white drawings.

SEA LIFE AT THE OCEAN'S EDGE. Julia Corbett. Pacific Northwest National Parks and Forests Association. 1984.

Descriptions of tide pool habitat and inhabitants.

CURRICULUM

GET THE DRIFT: Project WILD. P.O. Box 18060, Boulder, CO. 80308-8060.

RANGER RICK'S NATURESCOPE; DIVING INTO OCEANS Activity Guide. National Wildlife Federation. 1988.

RIPPLES: A BIG SWEEP ELEMENTARY ACTIVITY GUIDE. Contact: University of North Carolina Sea Grant College Program, Box 8605, North Carolina State University, Raleigh, N.C. 27695-8605.

POSTERS

INTERTIDAL ORGANISMS ZONATION POSTER. Available for \$2.00 from the Hatfield Marine Science Center, 2030 Marine Science Drive, Newport OR 97365.

SOFTWARE

A FIELD TRIP INTO THE SEA. Sunburst.

Students explore the kelp forest and rocky shore habitat by clicking on any plant or animal to find its name, zooming in for a closer look, and linking to find an animal in another setting.

EXPLORING TIDEPOOLS. Sunburst.

A simulation which builds students' knowledge of life cycles at different tide pool levels. In addition, students can initiate interactions and "build" tide pools of their own.

VIDEOTAPES AND SLIDES

MARINE DEBRIS slide show available from UNC Sea Grant, NCSU, Box 8605, Raleigh, NC 27695-8605 ph. (919) 737-2454.

THE MONTEREY BAY AQUARIUM VIDEO TREASURY. Monterey Bay Aquarium, 886 Cannery Row, Monterey, CA 93940-1085 ph. (408) 648-4850.

Segments in the 69 minute long video tape include: Feeding on the Rocky Shore, Reproduction on the Rocky Shore, The Kelp Forest, Marine Mammal Introduction, Flukes and Flippers, Voices in the Sea, Seasons of the Squid, Plankton, Behind-the-Scenes: Collecting, and Dive into Monterey Canyon.

OCEANS ALIVE! Videos. Available from Environmental Media, P.O. Box 1016, Chapel Hill, NC 27514 1-800-368-3382.

A series of 5 minute programs. Parts One and Two, available in both Spanish and English, are most relevant for this curriculum.

OREGON INTERTIDAL ANIMAL SLIDE SET. Sea Grant Education Program, Hatfield Marine Science Center, 2030 Marine Science Drive, Newport OR 97365. (503) 867-0271.

Slide set accompanied by script. Presents interesting facts about the creatures which inhabit the rocky intertidal zone.

OREGON'S ROCKY INTERTIDAL VIDEOTAPE. Sea Grant Education Program, Hatfield Marine Science Center, 2030 Marine Science Drive, Newport OR 97365. (503) 867-0271.

A 12-minute video introducing the tide pools of Oregon to your students. Excellent for use prior to a field trip to the coast.

PLANKTON Video. National Geographic # 51167. 1986.

A 12 minute video that introduces the various kinds of plankton and offers a glimpse of the myriad plant and animal plankton. Viewers watch as planktonic animals consume plant plankton and other planktonic animals in this interesting film.

THE ROCKY SHORES narrated slide show. Available from: Sea Studios, 810 Cannery Row, Monterey, CA 93940 (408) 649-5152.

Includes 56 images of rocky shore animals and plants, as well as a teacher's guide.

TRASHING THE OCEANS Videotape available from Center for Marine Conservation, 1725 DeSales Street, NW, Washington, DC 20036. (202) 429-5609.

OTHER RESOURCES

DISCOVERY SCOPES. Available from: Discovery Scope, Inc., P.O. Box 607, Green Valley, AZ 85622 (602) 648-1401.

This usable and highly versatile hand-held, wide-field microscope includes an adaptor to hold clear view chambers which can serve as tiny aquariums.

INVESTIGATING SANDS AND BEACHES Activity Kit. Creative Dimensions, P.O. Box 1393, Bellingham, WA 98227. (206) 733-5024.

Investigate beach sand from different locations in the continental U.S. Included is a teacher's guide, 11 beach sand samples, and paper cups.

MAC'S FIELD GUIDES. 2321 -34th Ave. S. Seattle, WA 98144.

Available for all kinds of marine and terrestrial organisms, Mac's guides are heavy plastic cards with detailed drawings for identification. Card NW-1 is Northwest Coastal Invertebrates.

MARINE EDUCATION; A BIBLIOGRAPHY OF EDUCATIONAL MATERIALS AVAILABLE FROM THE NATION'S SEA GRANT COLLEGE PROGRAMS. July 1988. Available from: Marine Information Service, Sea Grant College Program, Texas A & M University, College Station, TX 77843-4115.

A highly recommended free resource that includes a state-by-state listing of regional resources, as well as curriculum and other materials of general interest.

THE MONTEREY BAY AQUARIUM ANIMAL SETS and ECOSYSTEM SETS. Monterey Bay Aquarium, 886 Cannery Row, Monterey, CA 93940-1085 ph. (408) 648-4850.

Animal sets include: Marine Mammals (Gr. K-12) and Sharks/Fishes (Gr. 3-12). Ecosystem sets include: Rocky Shore (Gr. K-5), Sandy Seashore (Gr. K-8), Kelp Forest (Gr. K-12), Deep Sea (Gr. 6-12) and Ecology/ Conservation (Gr. K-12). Each set includes materials and activities developed by the aquarium staff.

PLASTIC DEBRIS TEACHING KIT. Contact: OSU Extension Sea Grant, Hatfield Marine Science Center, Newport, OR 97365.