

Water and Weather Bibliography

Northern Kentucky University
Center for Environmental Education

5/03

CLOUD DANCE. Locker. Wonderful celebration of clouds. Similar to life, clouds are always changing, and one never finds two clouds that are alike. In a lyrical text complemented by glorious paintings, Thomas Locker takes readers on a magnificent journey through the world of clouds, from storm clouds to moonlit clouds to the gray clouds that cover the sky as a blanket. Closes with a detailed nonfiction information section on clouds. Perfect for ages 5-10. #B-9052. \$15.95 hardcover.

www.acornnaturalists.com

RIVER DISCOVERIES. Wadsworth. NEW children's book looks at 13 animals that depend on the river for food and shelter. Based on a 24-hour period, this book reveals the lives of these animals intertwined to form a unique ecosystem. Beautiful illustrations and informative text give one a sense of discovery as the lives of otters, trout, salamanders, raccoons, mountain lions, osprey and others are explored. Questions are asked throughout, further lending to the sense of inquiry and discovery as the day goes on. For ages 6-10. #B-11091. \$16.95 hardcover. www.acornnaturalists.com

THE DROP IN MY DRINK: THE STORY OF WATER ON OUR PLANET. Meredith Hooper. Illustrated by Chris Coady. Viking. 32pp. Trade ISBN 0-670-87618-6. Here is the amazing and ever changing story of water-where it comes from, how it behaves, why it matters-and the crucial role it has played throughout life on Earth. The eye-catching illustrations are realistic and thought provoking.

ALL THE RIVERS RUN, A Curriculum Guide for Grades 4-8. National Park Service, Cuyahoga Valley Environmental Education Center. A model for the study of watersheds. Its chapters include what constitutes a watershed, plant and animal communities, connections, weather factors, historical perspectives, future directions and many supplemental resources and activities for teachers. Every watershed should have a visionary program such as this! This manual provides a fine framework. Includes CD with energetic, substantive songs about watershed plants, animals and issues. Punched for 3-ring binder (not included). #WATER-5121. www.acornnaturalists.com

STREAMKEEPER'S FIELD GUIDE: Watershed Inventory and Stream Monitoring Methods. Murdoch, Cheo, O'Laughlin, Adopt-A-Stream Foundation. SECOND EDITION. Sections on understanding watersheds, conducting field inventories, water quality monitoring programs, keys to plant and animal life, methods of analyzing and presenting your data and how to effect changes in attitude and policy. Manual is adaptable for use by students, ages 12-adult. Companion video also available. #WATER-5109. www.acornnaturalists.com

WATERSHED SCIENCE FOR EDUCATORS. Edelstein, Trautmann, Krasny.

Comprehensive activity packet for measuring the biological, chemical and physical parameters of water bodies. Activities include discovering pond and stream organisms, studying interactions among organisms, evaluating chemical parameters of water quality, as well as physical factors such as flow rate. Together, these studies tell a story about watershed health and allow students to evaluate how changing land uses impact water quality. Data collected by students can also be used to get citizens and local, state and federal water quality professionals involved in local water quality issues. Activity guide is 3-ring punched for easy placement into your own notebook or binder.

www.acornnaturalists.com

THE INDOOR RIVER BOOK, The Complete Guide of Integrated Activities for Building and Maintaining a Model Watershed in Your Classroom. Common Roots.

Shows how to create a working model of your watershed. Activities in science, math, social studies, language arts, creative arts, and technology. Brings students in grades 4-8 out into the community where they conduct research on the local waterways. Projects can continue over many seasons, creating a focal point for students and teachers to discuss changes and improvements. #WATER-5500. www.acornnaturalists.com

RESTORING LIFE IN RUNNING WATERS, Better Biological Monitoring. Karr, Chu.

Biological monitoring and assessment programs do not exist in most aquatic environments. This book seeks to change that by providing practical and effective tools for scientists, managers, citizens, and students for use in developing information that can be readily integrated into policy. Authors believe that healthy aquatic ecosystems are maintained by focusing on the biological integrity of the system. #WATER-8262

www.acornnaturalists.com

RESTORE YOUR SHORE. Minnesota Department of Natural Resources. NEW comprehensive CD outlines how sensitive lake and pond shorelines can be managed to maximize human and wildlife value. Contains worksheets that take you through the process step-by-step. Create a customized plant list from an extensive searchable database of over 400 plants. Learn which plants should not be planted as well. Although written for lakes in and around Minnesota, this CD will be useful for anyone working to enhance aquatic environments east of the Mississippi. #WATER-11167.

www.acornnaturalists.com

WATCHING WEATHER, A Low Pressure Book about High Pressure Systems and Other Weather Phenomena. Murphree, Miller.

Explains the basic scientific principles that underlie weather and shows you how to use this knowledge to predict local weather patterns. Understand how weather outside your door is linked to conditions thousands of miles away. Accurate, up to date information, from practical advice on finding a cool spot to picnic on a hot day to understanding the conditions that create El Niño and La Niña.

#BW-8347. www.acornnaturalists.com

ENERGY, ATMOSPHERE & CLIMATE: Teacher's Guide. World Resources Institute. Superb resource for secondary school teachers to use when developing supplementary lessons on energy sources, atmosphere and climate. Students learn to identify air pollutants, communicate concerns about air pollution, and identify strategies for dealing with international issues such as global warming and ozone depletion. Projects are coded to the national standards to facilitate inclusion into history, mathematics and science curricula. #EE-7036. www.acornnaturalists.com

LIGHTNING. Kramer, Fadley. One hundred bolts of lightning strike the earth every second, sometimes in the same place. What are stepped leaders, upward streamers, return strokes, dart leaders? How does lightning form, where do the electrons in lightning go, and what can one do to protect oneself? How can thunder be used to predict how far away lightning is? Ages 9-15. #BW- 4265. www.acornnaturalists.com

GLOBAL WARMING AND THE GREENHOUSE EFFECT. GEMS. Students build a greenhouse model of the atmosphere and conduct simulation games and carbon dioxide gas release experiments using baking soda and vinegar. Students also hold a conference on global warming and learn that environmental problems can be viewed from several different perspectives. Extensive background information. Eight sessions, grades 7-10. #GEMS-2816. www.acornnaturalists.com

ALL WEATHER STUDENT JOURNAL. NEW waterproof 32 page 4-4/5" x 7" spiral wound field journal. Raining? No problem, you can keep writing! Drop in the stream? Just fish it out and keep going. Perfect for weather watchers, students, field naturalists, hikers and campers. #B-10209. www.acornnaturalists.com

WEATHER LEGENDS, Native American Lore and the Science of Weather. Vogel. This book presents weather from the standpoint of Native American storytellers who recount legends related to the sun, wind, and clouds. Many weather patterns were thought to represent interactions between humans and weather spirits, with reactions that ranged from beautiful rainbows to violent tornadoes. A fascinating look at weather phenomena through the eyes of modern science and those of individuals whose lives brought them in direct contact with ever-changing weather patterns. Ages 10-adult. #BW-11205. www.acornnaturalists.com

OUR WET WORLD. Sneed B. Collard, III. Illustrated by James Needham. Charlesbridge. Trade ISBN 0-88106-267-7; Paperback ISBN 0-88196-268-5. Readers will discover 13 different aquatic ecosystems as they read about the diversity of life found in the wet places of the Earth. Close-up illustrations provide details about the fascinating flora and fauna that inhabit the waterways of our planet.

WATER DANCE. Locker. Winner of the Outstanding Science Trade Book for Children, this beautifully illustrated book celebrates sparkling, glistening, whooshing, surging, roaring, trickling, and calming water. Vignettes depict water as rain, a mountain stream, a waterfall, lake, river, the sea, mist, clouds, a storm, a rainbow and more. Perfect for children ages 5-10. #B-9079. www.acornnaturalists.com

COMMON GROUND: The Water, Earth and Air We Share. Bang, Molly. New York: Blue Sky Press, 1997. ISBN 0590100564

How do our individual actions affect the world? This modern parable invites discussion of this question. It is a simple parable of sheep that reveals a disturbing paradox about our relationships with the environment that sustains us. With older children, it can be used as an illustration of short-term solutions vs. long term consequences.

MARSHES AND SWAMPS. Written and illustrated by Gail Gibbons. Holiday House. Trade ISBN 0-8234-1347-0. Various forms of marshes and swamps are presented through clearly written text and detailed illustrations. Information is also provided about the types of organisms and animals that live in these wetlands.

HERE IS THE CORAL REEF. (*Here Is the...* series). Madeleine Dunphy. Illustrated by Tom Leonard. Hyperion. 32pp. Trade ISBN 0-7868-0163-8, \$14.95; Library ISBN 0-7868-2135-3, \$15.49. (P) This vividly illustrated book presents the interdependence of the various inhabitants of the ecosystem that is Australia's Great Barrier Reef. The repeating verse style will engage young readers as they gain an appreciation of the plants, fish, and other sea creatures that live in and around the reef.

www.acs.ucalgary.ca/~dkbrown/nsta99.html

AN ISLAND SCRAPBOOK: DAWN TO DUSK ON A BARRIER ISLAND. Written and illustrated by Virginia Wright-Frierson. Simon & Schuster. 40pp. Trade ISBN 0-689-81563-8, \$16. (P, I) Accompany an artist and her young daughter as they explore the ecosystem of a barrier island. Through detailed sketches, observational field notes, and beautiful watercolor paintings, the reader learns about the fascinating animals and plants found within this fragile and ever-changing environment.

www.acs.ucalgary.ca/~dkbrown/nsta99.html

WELCOME TO THE ICE HOUSE. Jane Yolen. Illustrated by Laura Regan. Putnam. 32pp. Trade ISBN 0-399-23011-4, \$15.99. (P) The mysterious world of the Arctic comes to life as the story progresses through all the seasons of the year. A rich, poetic text and incredibly detailed illustrations depict the lives of animals and the varied scenes of nature as the seasons change. www.acs.ucalgary.ca/~dkbrown/nsta99.html

WEATHER (NATIONAL AUDUBON SOCIETY FIRST FIELD GUIDE SERIES). #FG-7170. www.acornnaturalists.com