

RELATED PROGRAMS:

National Environmental Study Area (NESA) is a cooperative program of the bureaus within the Departments of the Interior and of Health, Education and Welfare, the National Education Association, and local education communities, using guide materials developed by the National Park Service and the existing curricula of participating schools. Started on lands of the National Park System, NESAs now provide a framework for study areas anywhere.

National Environmental Education Landmarks (NEEL) is a Registry of nationally significant environmental study areas with exemplary environmental education programs and capable of providing technical assistance to those engaged in developing environmental education programs.

MATERIALS:

Adventure in Environment: Classroom Book, Outdoor Book, Teacher's Guide; Silver Burdett Co., Morristown, New Jersey 07960.

NEED Picture Packet and Teacher Guide: 12 full color environmental photos on both sides of 18½ x 23-inch boards, for middle through 12th grades, with Teacher's Guide using the NEED strands; also Silver Burdett Co.

Man and His Environment: An Introduction to Using Environmental Study Areas; Study Guide, related film strip and recorded narration; National Education Association Publication-Sales Section 31, 1201 16th Street, N.W., Washington, D. C. 20036.



*There is one web of life and you are part of it.
The web is in trouble.
You can do something about it.*



For information
on National Environmental Education
Development Program
write:

Director,
National Park Service
U. S. Department of the Interior
Washington, D. C. 20240

NORTHEAST REGION

National Park Service
143 South Third Street
Philadelphia, Pennsylvania 19106

NATIONAL CAPITAL PARKS

National Park Service
1100 Ohio Drive, S.W.
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SOUTHEAST REGION

National Park Service
Federal Building, P.O. Box 10008
Richmond, Virginia 23240

MIDWEST REGION

National Park Service
1709 Jackson Street
Omaha, Nebraska 68102

SOUTHWEST REGION

National Park Service
P.O. Box 728
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WESTERN REGION

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U. S. Department of the Interior
National Park Service

NEED



National Environmental Education Development (NEED) is a *process* for developing environmental awareness, understanding, and values through use of existing curricula of participating schools.

Designed as a kindergarten through 12th grade program, it emphasizes awareness through inquiry, wise management of our resources, and development of a personal environmental ethic. Materials for grades 5 or 6 are now available.

The processes that form the backbone of NEED operate everywhere throughout the environment, in nature and in what man has made of nature—his civilization, his culture, his history, his society. Thus NEED can be used to make environmental concepts relevant to any lesson in any curriculum for any child, regardless of individual background or environment.

NEED'S ENVIRONMENTAL STRANDS

The strands are five "constants" that run through the total environment. They can be used individually, in relation to a specific subject or a particular environmental setting. They also have a sequence and interconnectiveness that may deepen their significance and utility. Taken in order, they represent a logical sequence of learning. The strands can also be used singularly or in whatever combination suits the particular situation.

Variety and Similarity—the inventory stage of learning; cataloging the observable components.

Patterns—organizing the inventory into sets of things we can handle, either actually or intellectually.

Interrelation and Interdependence—the action stage of learning, where the environmental components are studied in motion.

Continuity and Change—the extension in time of continuing processes and changing action.

Adaptation and Evolution—the stage involving continuous modification which may result in adjustment to prevailing conditions.

NEED materials at grade 5/6 consist of a classroom book, an on-site activity book, and a teacher's guide. Lessons cover six subject areas—art, music, mathematics, social studies, science and language arts. The strands provide a lively environmental approach and suggest endless ways a teacher can improvise to apply the approach through her entire teaching experience.

Pre-site lessons introduce the child to the strands and their application in all subject areas; the on-site book is activity material geared to a five-day camp experience but usable in a series of day-long trips. Post-site lessons in the classroom book wrap up all six subjects with further reinforcement of NEED's basic message:

The environment is a total entity; each person is firmly stitched into its fabric; he does have a choice as to whether he enhances or detracts from the total quality of the world.

NEED is not "another subject" added to the teaching load. It is more like an additive that "lightens and brightens the load." Through the strands a child learns how "subjects" are man's way of packaging the world; how the world can only be understood in its total reality when these various subject-packages are seen in relation to one another. In every case, the student's attention is directed to the strands at work in his own small world—his home, his neighborhood, his flowerbed and his friendships.

The teacher's guide provides back-up and information to support the classroom and on-site aspects of the NEED program.

Teacher workshops are recommended. Sources for materials and guidance to facilitate them are listed on the back of this pamphlet. Workshops can be arranged by a sponsoring institution (a local civic group, the city government, the National Park Service, etc.) and carried out by or with cooperation of one school or an entire system. Teachers are introduced to NEED materials, acquainted with resources of the site they will be using, and given a run-through of the activities.

NEED's primary goal is to assist the child in coming to grips with his own world by way of a valid environmental ethic. Such an ethic must be based on understanding of the earth's systems and how they operate. It must grow out of a personal desire to participate in the total life process of the planet.

NEED lets the child choose his own door to the world.

No longer must he enter through the arch labeled "natural science" or, more loosely, "outdoors." He can find through the strands that environment encompasses any subject area . . . that an oil painting of the Grand Tetons is just as valid a part of the world as the Tetons themselves. Whatever his talent, his interest, his choice, he learns that he must pursue it within the framework of total environment—that he has nothing but the processes of that environment to work with.

In short, NEED opens "environment" to every living person.

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