

For More Information

Contact the Rutgers Cooperative Extension 4-H Office in your county.

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Bergen County (201) 336-6785
Burlington County (609) 265-5052
Camden County (856) 566-2900
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Cumberland County (856) 451-2800
Essex County (973) 228-3785
Gloucester County (856) 307-6450
Hunterdon County (908) 788-1340
Mercer County (609) 989-6833
Middlesex County (732) 745-3476
Monmouth County (732) 431-7263
Morris County (973) 285-8301
Ocean County (732) 349-1227
Passaic County (973) 305-5742
Salem County (856) 769-0090
Somerset County (908) 526-6644
Sussex County (973) 948-3040
Union County (908) 654-9854
Warren County (908) 475-6502

State 4-H Office

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RUTGERS COOPERATIVE RESEARCH & EXTENSION
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NEW BRUNSWICK

Distributed in cooperation with U.S. Department of Agriculture in furtherance of the Acts of Congress on May 8 and June 30, 1914. Rutgers Cooperative Extension works in agriculture, family and community health sciences, and 4-H youth development. Dr. Karyn Malinowski, Director of Extension. Rutgers Cooperative Research & Extension provides information and educational services to all people without regard to race, color, national origin, gender, religion, age, disability, political beliefs, sexual orientation, or marital or family status. (Not all prohibited bases apply to all programs.) Rutgers Cooperative Research & Extension is an Equal Opportunity Program Provider and Employer.

Overview of 4-H

The New Jersey 4-H Program is the youth development component of Rutgers Cooperative Extension of Cook College, Rutgers University. In each New Jersey county, through the local Rutgers Cooperative Extension office, 4-H offers informal, educational programs to youth in grade K-13 (one year out of high school).

Because 4-H offers a variety of programs to meet the needs of New Jersey's diverse population, there is something for everyone.

The primary focus of 4-H is positive youth development, which is accomplished through a variety of delivery modes using hands-on, experiential learning programs.

4-H subject matter areas are broad and diverse. Curriculum is designed in these areas using knowledge and information generated through the land grant system, of which Rutgers University is a part. The following are the classifications into which 4-H curriculum are placed:

- Citizenship & Civic Education
- Communications & Expressive Arts
- Consumer & Family Sciences
- Environmental Education & Earth Sciences
- Healthy Lifestyle Education
- Personal Development & Leadership
- Plants & Animals
- Science & Technology

4-H Staff

The 4-H Program in each county is conducted by faculty and staff who are members of the Department of 4-H Youth Development, Cook College, Rutgers University.



SPACES-Opening Doors to the Future

SPACES—Preparing Kids for a High Tech & Global Future features learning activities which are creative, challenging, thoughtful and fun. Hands-on activities and learning experiences are designed to help early adolescents (grades 4-10) explore three important areas:

1.) *Personal Coping Skills*—The Inner Space unit helps kids develop personal coping skills through activities that increase their self-awareness and self-esteem, develop their interpersonal communication and decision-making skills, and helps them explore values and ethics.

2.) *Science & Technology*—The Outer Space unit provides an opportunity for young people to discover new ideas, develop their natural curiosity, test scientific approaches to problem-solving, and understand what drives technological change in our society.

3.) *Global Issues*—The Shared Space unit focuses on developing an understanding of similarities and differences among different cultures, increase awareness of environmental issues, and explore ways in which the global community can work together for a common good.

This curriculum is available for purchase. Training is offered on a limited basis.



4-H and Schools Working Together in Science Education

Jeanette Rea-Keywood
Cumberland County 4-H Agent



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Enrich Your Classroom with 4-H Educational Materials

- 4-H SERIES
- Science Discovery Series
- Earth X-Press
- EM*Power
- SPACES

4-H curriculum and programs will help your school meet the NJ Core Curriculum Standards in science-related areas. Details on 4-H Science & Environmental Education materials are included in this brochure.

Curriculum & Training

The 4-H program offers an array of valuable educational resources, training, and workshops. Many of the curriculum materials closely align with the New Jersey Department of Education Core Curriculum Content Standards.

There are several examples of 4-H educational resources in the areas of Environmental Education, Science & Technology, Plants, and Animals which address the science standards.

4-H Materials Reinforce Core Curriculum Standards

This brochure lists 4-H curriculum which will help your school meet the educational standards in science-related areas. These materials utilize experiential and inquiry-based approaches to develop problem solving, decision making, and leadership skills.

They also encourage youth to develop an understanding of the science processes.



4-H SERIES

The **SERIES** (Science Experiences & Resources in Informal Educational Settings) curriculum was designed to provide 4-7th graders a hands-on approach to learning the processes and concepts of science. Environmental and societal science issues affecting everyday life are an integral part of this science education program.

SERIES utilizes instructional experiences that focus on science literacy, the application of science and technology, and also allows for inquiry-based learning.

SERIES offers the following units:

- Chemicals Are Us
- Beyond Duck and Cover
- It Came From Planted Earth
- Oak Woodland Wildlife
- What's Bugging You?
- Recycle/Reuse
- Sciencing with Snails
- From Ridges to Rivers: Watershed Explorations

Training and curriculum are available for a nominal fee.

4-H Science Discovery Series

These five self-contained kits help educators share science lessons with youth (grades 2-7) using a fun, learn-by-doing approach.

Topics include:

- As Big as a Whale
- Don't Trash the Planet
- Geology Where You Live
- Good to the Last Drop
- Tree-Mendous Fun

Each kit contains a lesson plan and nearly all of the teaching materials needed to conduct the activities. The kits are available on loan from the Rutgers Cooperative Extension 4-H Office in your county.



A 4-H Leader Lesson Guide can be purchased from the Rutgers Cooperative Extension Publications Distribution Center (732/932-9762). This guide contains a complete set of lessons and science exploration activities for the five topic areas and also provides an overview of the experiential learning, and life skill development processes.



Earth X-Press

The Earth X-Press, Volumes I-III, are a collection of one page science and natural resource information and activity sheets which focus on the areas of plant science, geology, ecology, marine science, environmental science, conservation, and meteorology.

Earth X-Press is available for purchase from the Rutgers Cooperative Extension Publication Distribution Center (732/932-9762) or by calling the 4-H Office in your county.



EM* Power

EM* Power provides an action-oriented, experience based, waste and environmental management curriculum for youth in grades 6-9. Six consecutive lessons utilize games, role playing, interviews, teamwork, and other activities to develop critical thinking skills.

Through these activities youth will:

- 1) develop an awareness of a wide range of waste management concerns.
- 2) explore how concerns become issues.
- 3) learn how other youth have made a difference in resolving issues.
- 4) identify waste management concerns in their own communities.
- 5) explore the range of facts and opinions surrounding a local concern.
- 6) develop and carry out an action plan in their own community.

Training and curriculum are available for a nominal fee.

See back for information on SPACES - Preparing Kids for a High Tech & Global Future

