

Scouts/School Groups 2011-2012

Programs Offered by New Dawn Earth Center

Teachers, choose one of the following programs or share your needs with us and we will try to accommodate your group. Discount for repeated program on the same day.

All Programs adapted to age level, badges and curriculum needs.

ND - programs offered at New Dawn Earth Center

SC - programs offered at your school or at New Dawn (additional fee for mileage)

Call 401-333-1341 or email: newdawn@mercyne.org

LIFE SCIENCE PROGRAMS

Animal and Plant Winter Adaptations- Grades 2- 6

Program length: 75 minutes **Cost:** \$85

Students will explore the woods and fields to look for signs of deer, coyote, fox, mice, squirrels, owls and discuss their adaptations for winter. Observation of chipmunk holes, club mosses and tree buds will lead to more sharing and questions. ND



These programs address Rhode Island Science Expectations: LS1(K-4) – INQ + POC-1; LS1(5-6) – INQ +SAE-1

Explore the Pond - Pre-K to Grade 8 (April - September)

Program length: 60 minutes **Cost:** \$75

Students will learn about those organisms that inhabit a pond, how they are interrelated and the characteristics that allow them to survive. Life cycle of the dragonfly and frog will be emphasized.

ND

Signs of Spring - Pre-K to Grade 6 (April to June)

Program length: 75 minutes **Cost:** \$85

Students will look for signs of spring as they hike through fields and woods observing bluebirds, tree swallows, chipmunks, signs of deer, buds and flowers of the trees, wildflowers, insects and a variety of surprises. ND

These programs address Rhode Island Science Expectations: LS1. LS1 (K-4), POC – 3

Discovering Vernal Pools (Grades 5-8) (February-March)

Program length: class presentation 50 minutes at your school

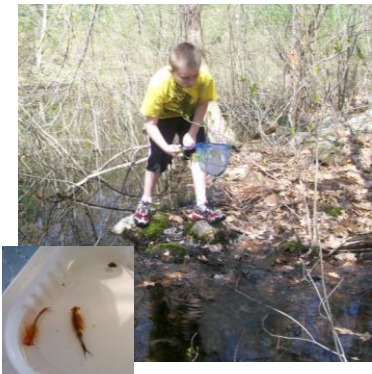
field trip to a vernal pool at New Dawn Center 115 minutes;

Pre and Post Trip Info provided. **Cost:** \$175

Take a virtual tour of our vernal pool through an interactive power point presentation. Learn how vernal pools and their inhabitants are impacted by the different seasons. The fairy shrimp, wood frogs, and salamanders will be highlighted. During the field trip, students will visit a vernal pool, observe a variety of species, and discuss their interconnectedness. (During a March field trip the wood frogs may be calling.)

These programs address Rhode Island Science Expectations: LS1 (5-6), LS1 (5-8),

INQ+ SAE- 1 POC – 3, LS2 (K-4) SAE –5, LS2 (3-4) – 5



EARTH SCIENCE PROGRAMS



Wonders of Minerals and Rocks (Grades 1 -6)

Program length: 60 minutes **Cost:** \$75

Is it Cumberlandite, granite, limestone, gneiss or schist? Students will be guided to discover the differences and similarities among these rocks and several others. They will observe a rock that floats, one that is magnetic, one that is smooth, one that is rough. A variety of minerals which include: sulfur, graphite, copper, galena, quartz, calcite and fluorite crystals will be part of the program. SC

This collection of over 40 rocks and minerals could be adapted to the specific grade level to meet the following Rhode Island Science Expectations:ESS1 (k-4) INQ – 1, ESS1 (k-2)-1, ESS1 (3-4)-1

The Earth's History Through Rocks (Grade 4 and up)

Program length: 60 minutes **Cost:** \$75

Students will examine rocks of different ages, some of which include fossils, and place them on a continuum from Pre-Cambrian to Pleistocene. Students will discuss where these rocks were found and how they might have formed. This discussion will lead to instruction about plate movements. SC

This program could be adapted to the specific grade level to meet the following Rhode Island Science Expectations:ESS1 (5-8) INQ + POC – 1, ESS1 (5-8) INQ + POC – 5.

Planet Earth within the 14 billion Year Universe Story (Grades 2 – 6)

Program length: 60 minutes **Cost:** \$75

Students will understand the place of earth within the universe story and the time scale during which events in the universe occurred. Students build a “human earth” to experience its layers: crust, mantle and core. They use their arms to learn about the geological time scale of earth and various events during earth’s 4.5 billion year history. During a reflective and interactive story, they become aware of how life evolved within the universe and earth. Program is adapted to grade level. SC



We All Live Here: A Climate Change Presentation (Grades 5-6)

Program length: 90 minutes **Cost:** \$155

Students will view a two- part power-point presentation The first part “From the Universe to New England or Peru, How are we all connected!” to set the topic of climate change in a broader Earth Human context and a second inter-active part “Global Climate Change” that teaches students how to differentiate between weather and climate, understand the greenhouse effect, learn why carbon dioxide has increased over the years, its impact on climate change and what actions students can take to reduce their carbon footprint. After the power-point presentation, students participate in inter-active group activities on the carbon cycle and local food SC

**FOR MORE INFORMATION OR TO SET UP A PROGRAM FOR YOUR CLASS,
CALL 401- 333-1341 OR EMAIL mercayne.org**

Scout Badge Programs

Troop Leaders..... call us to schedule a program that will meet your badge requirements.

**Program Fee: \$75.00 for a one hour program
This fee includes up to 20 individuals including scouts, siblings and scout leaders. Additional persons: \$5.00 each**

Sample Junior Girl Scouts Badges

Earth Connections

- 20 page ecosystem study. Assistance with plant lists, temperature readings, and the differences between ground cover, shrub and tree levels in an ecosystem.
- 10 tree identifications using our surrounding grounds.
- Tree ring reading at a tree near the New Dawn Earth Center Garden.
- Identification of 5 native species and how they were used by Early Settlers or Native Americans.
- Earth as an ecosystem: Investigations on air pollution, oil spills, over fishing, and deforestation and how to protect Earth.



Your Outdoor Surroundings

- How to protect the environment.
- Learn an outdoor hobby, bird watching, hiking, etc.
- Scientist and artist activity, all materials and instruction provided for your troop.
- Nature hike and scavenger hunt activities.

Wildlife

- Drawing and camera work out in nature.
- Birds and Beaks activity using different utensils to simulate beaks.
- Identification of 1 or 2 poisonous plants, where do you find them? What should you do if you come in contact with them?
- Closer Look, using binoculars, stereo-scope microscope, and magnifying glasses all materials available as part of the program.
- Activities on "How to Identify Birds" using multiple identifiers, markings, sound, habitat to identify three birds.
- Animal observations in the habitats surrounding the center. What do animals eat? Where do they find shelter? How do they communicate?

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