

Hartshorn Summer Program 2011

Peabody Mill Environmental Center

The mission of Peabody Mill Environmental Center (PMEC) is to foster an awareness, understanding, and appreciation of the natural world, by offering environmental, conservation, and science programs to all ages. PMEC strives to foster diligent stewardship of our environment so that future generations may inherit and continue to be inspired by the wonders of a protected and natural world.

With that in mind we are offering our 22nd season of environmentally based programs in our Hartshorn Summer Program. Programs will be held at the PMEC located at the end of Brook Road in Amherst. Programs are offered by grade and the grade refers to the grade your child will be entering in the Fall of 2011. The week long classes are offered 9am-12pm daily with extended day options available. Be sure to register early as classes fill quickly. Classes will begin Monday 6/27/11 and continue for 8 weeks of summer! Extended day programs are not offered for children younger than those entering 1st grade.

Week 1 June 27-July 1 ~ **Week 2** July 5 -July 8 ~ **Week 3** July 11-15 ~ **Week 4** July 18-22 ~ **Week 5** July 25-29 ~ **Week 6** August 1-5
Week 7 August 8-12 ~ **Week 8** August 15-19

Pre-Schoolers (3 & 4 year olds)

Toddler Trails, Tales & More.... Explore the woods, ponds and brooks around PMEC. Enjoy games, easy hikes, stories, and nature crafts. Each toddler must be accompanied by an adult. Offered weekly beginning 6/29 on Wednesdays (8 weeks) 1:00 -1:45pm

Kindergarteners* & 1st Graders

Abenaki Indian Kids : Learn some fun facts about the culture of the Abenaki Indians as you walk in the steps of an Abenaki child. This adventure will include shelter building, food gathering, story telling and games. Each child will make a corn husk doll, construct a model of a wigwam and design their own head piece. (Foraged food items will not be consumed) 7/5-7/8, 7/25-7/29

Forest & Pond Dwellers: Get excited about animals! Spend each day investigating a different type of animal through observation, exploration, and creative activities. Explore the world of insects, reptiles, amphibians, birds, and mammals. Enjoy activities and games about animals. 7/11-7/15, 8/1-8/5

Never Get Lost: Leave behind the GPS and join us as we learn basic map reading skills, how to operate a compass, read trail signs and find our way back. We'll build a map of our location and the surrounding trails, build a basic compass and setup our own trail sign system. 7/11-7/15, 8/1-8/5

Nature's Explorer Club: Explore the terrain around the center looking for creatures and their habitats. Senses will be heightened as we look and listen for signs of these creatures. The daily adventure will include hiking, bug catching, pond exploration, games, stories, crafts and more. 6/27-7/1, 7/25-7/29, 8/15-8/19

Out Of This World: Discover what lies in space beyond the earth including the moon, planets and stars! The class will build and launch a rocket. Create constellation and solar system models as you explore the world beyond. Become a part of a human solar system. 6/27-7/1, 7/18-7/22, 8/15-8/19

Trail Blazers: Join us as we travel our trails to forests and ponds discovering the fun that can be found in the woods. It will be a week of outdoor exploration, hiking, playing trail games, singing trail songs, telling stories, viewing the sights and sounds of the forest and completing arts and crafts projects. 7/18-7/22, 8/8-8/12

Up In The Air: Spend the week discovering what makes the air around us so amazing. Learn about air and wind using balloons, bubbles, paper airplanes, homemade miniature parachutes, and kites. 7/5-7/8, 8/8-8/12



2nd & 3rd Graders

Circle Of Life: Spend an enchanting week discovering the circle of life in our neighboring woods and water areas. Learn about mammals, birds, reptiles, amphibians, fish, insects and spiders, and discover how these creatures are interdependent. Explore PMEC habitats and learn what plants and animals need to survive. 6/27-7/1

Eco-Adventures: Our eco-adventure games will help our campers gain an appreciation of their natural surroundings. Learn to minimize your impact on the environment and the 3 R's of green living, reduce, reuse & recycle. Activities, games and hikes will fill your days. 7/18-7/22

Jr. Physicist: Join us as we introduce the basics of physics examining the relationship between matter and energy. We'll perform simple experiments involving mechanics, optics, electricity and magnetism, acoustics and heat to expand the minds of these young physicists. 7/18-7/22, 8/1-8/5

Magical Potions: Beginning chemists will delight as we investigate the science of chemistry. Common household products will be used to create fabulous flubber, polish pennies, set off pop rockets, investigate sour power, become a plaster master and more. We'll explain in simple terms the chemical reactions as they are created in each experiment. 7/11-7/15, 8/15-8/19

Music in Nature: Explore how nature inspires music, babbling brooks to wind to creaky trees, birds, frogs, and insects. Find out how and why animals make music. Make your own real musical instruments using items from nature. Learn some fun songs about nature. Become inspired to create your own song that we can put to music. No previous musical background required! 6/27-7/1

Paper Basics: Create works of art from items collected in nature. We'll incorporate natural objects in the paper we make, emboss, weave, stamp and collage. Kids will be proud to display the art they create each day. 7/5-7/8, 8/1-8/5

Sparks Will Fly: We'll learn the basics of electricity, exploring how it's produced through hands on experiments and activities. Kids will enjoy building a basic battery, creating static electricity to bend water and many other energy related projects. 7/5-7/8, 8/8-8/12

Wet & Wild: Explore the different types of wetlands in the Joe English Conservation land and the wildlife that lives there. Make your own fishing poles and fish in our ponds. Crafts and water activities will give children who are magnetically attracted to wet and muddy places a week to remember. This program is not for children unwilling to get wet and muddy every day. 7/11-7/15, 7/25-7/29

Wise Kids Outdoors: Ever want to make a fort to hang out in? Want to plant something and watch it grow? Wonder what worms do for the dirt? Then "Wise Kids Outdoors" is for you. You're guaranteed to get dirty, and have fun doing all these things and much more. You'll go on scavenger hunts, make a critter keeper, look for bugs, and even learn about simple geocaching. 7/25-7/29, 8/15-8/19



Woodland Fairy Adventures

MORNING SESSION Miss Sierra & her Fairy Friends will be making magical **Fairy Creations**. Children will take home their creation...each one unique & special. Along with these creations there will be Nature Walks, Storytelling, Music & Dance. Festive Fairy attire is welcome. On Friday, everyone will attend a *Graduation Celebration Fairy Tea*!

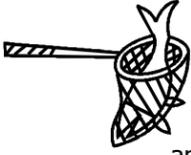
AFTERNOON SESSION Miss Sierra's August afternoon class works well as a complement to her morning class or all on it's own. Children will design additional **Fairy Creations** fashioned out of nature's gifts. To balance the creative handwork activities, there will be a Fairy Play, music, dance & storytelling. Festive Fairy attire is welcome. On Friday, a special *Graduation Celebration Fairy Tea* will be served!

Grades 2 & 3 August 8-12 Fairy Creations 9am-12pm Fairy Creations Continued 1-4pm
Grades 4, 5 & 6 August 15-19 Fairy Creations 9am-12pm Fairy Creations Continued 1-4pm

Vegetable Garden Club: 2nd, 3rd, & 4th Graders. Come learn about gardening by planting and tending a Pizza Garden. Learn to plant a garden, care for plants and harvest the garden bounty. We'll do our own weeding, watering, pest control and enjoy fun crafts and games as we go. We'll plant tomatoes, peppers, onions, oregano, basil and more. Gain a sense of ownership and pride for foods you have grown. Build a garden stepping stone to bring home. Tuesday afternoons 1-3pm. 6/28,7/5,7/12,7/19,7/26,8/2,8/9,8/16



*Note: Kindergarteners must be 5 by October 1st, 2011



4th & 5th Graders

Cast Away - Fishing Fun! Spend the week exploring and fishing the streams and ponds in the area. Learn the types of fish found in ponds and streams and how best to catch them. Our instructor will teach you the ins and outs of fishing using a variety of methods. Build a lure, fly and jig. (drop off and pickup location may change daily) 7/5-7/8, 8/8-8/12

Young Chemists: Each day in our laboratory you will explore the world of chemistry with safe, hands-on activities. You will experiment with carbon dioxide, make slime, make ice cream, look inside a diaper, make a bracelet with special beads that do fascinating things when sunlight shines on them, and much more. 7/5-7/8, 7/25-7/29

Outdoor Awareness Skills: Learn and practice the fundamentals of camp craft and wilderness survival. This program includes instruction in safety, shelter construction, trail cuisine, fire building, orienteering skills, and animal tracking. 7/25-7/29

Pond Creatures And Plants: Leap into the wetlands! During this wetland ecology class we will explore ponds, swamps and marshes. Investigate wetland creatures, plants and their habitats. Evaluate ways to preserve wetlands. 6/27-7/1

Who Done It? Forensics: Immerse yourself in a hands-on series of imaginary crime scene investigations. Learn about scientific techniques used to gather evidence, such as fingerprinting, analyzing handwriting, collecting and observing hair and fibers under a microscope, use chemistry to compare unknown powders, and to separate colors. 6/27-7/1, 7/18-7/22

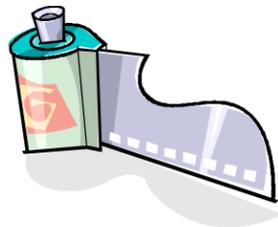
All Charged Up!! Imagine spending a week taking part in safe, hands-on, battery-operated experiments in our science laboratory. Each day you will make a different battery-operated device and then take it home. You will discover how batteries and circuits work. You will build a burglar alarm, telegraph, quiz game, steady-hand game, and electromagnets. 7/11-7/15, 8/1-8/5

Microscopes, What can you see?: For one week you will explore microscopy - using a microscope to view things. You will enter the world of the very small. You will prepare microscope slides and then view life found in a drop of pond water, water fleas, insect parts, plant cells, human cells, crystals, hair, thread, pepper, salt, sugar, yeast and many other tiny things. 8/8-8/12

Nature In Film: This class will give creative minded kids the opportunity to express themselves in film. Wander the grounds around the environmental center capturing nature in film. Many pictures will be taken, uploaded to the computer, edited, combined with music and to produce a slide show. Participants will produce a collage of their most favorite pictures and we'll help you mat & frame. Bring your own digital camera (with USB Cable) or we'll provide a basic digital camera for your use. 7/11-7/15

Become A Student Of Archeology: Do you like to dig for buried treasure in the dirt? Find lost items? Figure out what these clues to the past mean? Learn about the past? These are all things archeologists do, maybe you are one too? Let's see what stories from the past we can uncover in the grounds around P MEC using screens we build ourselves. 7/18-7/22, 8/1-8/5

Newton's got nothing on us... Budding physicists will explore the relationship between matter and energy, performing experiments that involve mechanics, optics, electricity and magnetism, acoustics and heat. We'll create a mini-roller coaster, vortex in a can, pinhole camera and many more. 8/15-8/19



6th, 7th & 8th Graders

Back Woods Adventures: Intensive hiking using compass and GPS unit to learn orienteering, questing and geocaching skills. Learn the technique of finding hidden treasures on scenic public land. Be prepared to get dirty, hike 3 hours, get lost and found! 6/27-7/1, 7/11-7/15

Capture The Flag, With A Twist: Be one of three groups to build a shelter and a fort in a secret location. With other skills learned this week, hide a map with coordinates to your fort. Play Capture the Flag using a compass and camouflage. Plan rescue missions to save captured team mates! 8/15-8/19

Dissection: Budding biologists will love to spend the week learning about the anatomy of several different creatures. This program introduces beginners to basic dissection techniques and internal and external anatomy of 4 very different animals: earthworm, crayfish, grasshopper & frog. 7/11-7/15

Advanced Dissection: Future biologists will be fascinated by the more advanced anatomy of these dissection specimens. The dissection techniques used in this class will be more advanced and the anatomy of the specimens more complex. 7/18-7/22

Get Your Head In The Clouds: This environmental weather study will teach you the effect weather has on the world around us. Gain an understanding of the effects of temperature, moisture and air movement. Is it global warming or the natural cycle of climate change? Let's explore the possibilities. Each student will begin a weather journal and build their own rudimentary weather station instruments. 7/5-7/8, 8/8-8/12

Jr. Naturalist: We'll engage our Naturalists in environmental studies to include introductions in geology & soil study, aquatic biology, forestry, meteorology and basic biology. These field studies will be conducted using scientific methods and provide a glimpse of what they might expect if they were involved in a more advanced environmental science program. 7/25-7/29, 8/8-8/12

Living In The Woods: Build a fort using ropes, downed wood and found objects. Could we really live in the woods? Challenge the limits of physics, engineering and creativity as we build a fort. Knot tying will be taught and no trees will be injured in the building the structures. 8/1-8/5

Nature Detective: Let's take a closer look at nature and see what will we find. Through scientific investigation, we'll examine water, soil and animals of all types to see what lies beyond the naked eye. Compile a journal recording the facts discovered. 7/5-7/8, 8/15-8/19

Who's Got The Power?: Create Energy From Nature: Learn about solar, geothermal, water, friction, and electro magnetics. Build energy projects from every day materials. 6/27-7/1, 7/25-7/29

Wipe Out in the Woods: Can you face the challenges before you? The obstacle course will be comprised of Low ropes, rope swings, rock climbing and much more, all setup to test your physical abilities. The course will involve running, climbing, jumping, crawling, balance, test of endurance and mental quickness. 7/18-7/22, 8/1-8/5

Over Night on a Back Woods Adventure: Experience the thrill of overnight backwoods camping, sleep under the stars, build a safe cook fire (weather permitting) and prepare the evening meal. More details and a list of supplies will be available on our website. Meals are included.

Dig This!!! with Light's Up Drama

In this "Drama Dig" - act out stories and legends of discovery, outside in the sun. Dig into your imagination and creativity in this delightful mix of History, Archeology, Art and Theater. Archeological Digs; Egyptian Pyramid of boy Pharaoh Tutankhamen, African Bushman caves--Dinosaur bones!, Seneca Native Indian village, Aztec tombs filled with gold and Australian trunk holding Captain Cook's diaries. Present a show of paintings, crafts and drama on the last day. Students Ages 7--14 years. 7/25-7/29

Hartshorn In The Afternoon

Spend the afternoon exploring nature! Enjoy a relaxing lunch with friends before spending hours engaged in fun activities. This loosely structured afternoon will include exploring the land and trails around P MEC, wading through streams, nature crafts, stories, board games and more. Children will spend time collecting frogs and bugs, and making new friends. Students Grades 1-6 noon-5:30PM

Hartshorn Program Registration Fee Schedule Weekly:

Hartshorn 9:00am-noon \$100 Res, \$110 Nonres
Morning Care 7:30-9:00am \$30 Res, \$35 Nonres
Afternoon Care noon-5:30pm \$95 Res, \$105 Nonres
Morning & Afternoon Care \$115 Res, \$125 Nonres

Hartshorn Program Registration Fee Schedule Daily:

Morning Care 7:30-9:00am \$8 Res, \$10 Nonres
Daily Afternoon - noon-5:30pm \$24 Res, \$26 Nonres

Hartshorn Program Registration Fee Schedule Cont'd:

4 Day Wks - 7/5-7/8 (July 4th Holiday) 9:00am-noon \$80 Res, \$90 Nonres
Morning Care 7/5-7/8 7:30-9:00am \$24 Res, \$29 Nonres
Afternoon Care 7/5-7/8 noon-5:30pm \$76 Res, \$86 Nonres
Morning & Afternoon Care 7/5-7/8 \$90 Res, \$100 Nonres
3 & 4 year olds-Toddler Trails, Tales & More, 10 Weeks \$65 Res, \$75 Nonres
1 week \$7 Res, \$8 Nonres
Vegetable Garden Club (8 Weeks) \$85 Res, \$95 Nonres

Pre-registration is required for all programs, weekly or daily. Payment must be received prior class participation. Register at www.amherstrec.org. Registrations can be mailed to P.O. Box 960, Amherst, NH 03031 and they can also be submitted in person at the recreation office or by phone at 673-6248.

