



AMHERST RECREATION

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Amherst Recreation Presents.....

Hartshorn Summer Program 2009

At Peabody Mill Environmental Center

Announcing classes for the 20th season of the Hartshorn Summer Program. Programs will be held at the Peabody Mill Environmental Center located at the end of Brook Road in Amherst, unless noted. **The grade listed is the grade the child will be entering in the Fall of 2009.** Week long classes are 9am-12pm, unless noted. Be sure to register early as classes fill quickly and there are maximum class sizes. Hartshorn classes will begin Monday 6/22/09 and continue for ALL 9 WEEKS OF SUMMER!!! Extended day options are available with before care 7:30am-9:00am and Hartshorn in the Afternoon 12:00-5:30pm. All-day programs are not offered for children younger than those entering 1st grade.

Pre-Schoolers (3 & 4 year olds)

Toddler in the Woods: Explore the woods, ponds and brooks around PMEC. Enjoy games, easy hikes, stories, and nature crafts. Topics will vary by week. Each toddler must be accompanied by an adult. Max 10/Min 5 toddlers per week. Offered weekly beginning 6/24 on Wednesdays 9:30 -10:45am

Make & Take for Tots: Preschoolers will explore the arts through a different medium each week. Draw, paint, color, mold...get messy with your child! Create a nature themed art project to take home each week. Many different mediums will be used to provide the children multiple ways of expressing themselves. Each toddler must be accompanied by an adult. Max 10/Min 5 toddlers per week. Offered Weekly beginning 6/26 on Fridays 9:30-10:45am

Kindergarteners* & 1st Graders

Air, Air Everywhere: K & 1st Graders. 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. 9am-12pm July 27-31, August 10-14

Amazing Animals: K & 1st Graders. Get excited about animals! Spend each day investigating a different type of animal through observation, touching, and creative activities. Explore the world of insects, reptiles, amphibians, birds, and mammals. 9am-12pm July 6-10, Aug 10-14

Critters at Home: K & 1st Graders. A new way of looking at animals and their habitats. Come learn about the animals around PMEC and what these animals do to survive and care for their offspring. Go on hikes, find animal homes, learn about different animals and local habitats, build habitat models, hear stories, and enjoy activities and games about animals. 9am-12pm June 29-July 3, Aug 3-7

Mainly Mammals: K & 1st Graders. Learn all about mammals (with an emphasis on those that live in NH) using PMEC's museum collections, stories, pictures, games, crafts, and possibly visits from live animals. 9am-12pm July 6-10, July 20-24, August 3-7

Nature's Inspirations: K & 1st Graders. Come experience art from art's original source "nature". There will be collections of natural curios to be used as subjects or in art crafts. During the week we will hike, draw, paint, construct, craft and wade in woodland streams (weather permitting). 9am-12pm August 17-21

Nighttime is for sleeping or is it?: K & 1st Graders. Ever wonder what critters come out at night or how they can see in the dark or even why is it dark? Spend a week exploring the wonders of the woods at night by day. Even if you are sometimes afraid of the dark meet some creatures who aren't. 9am-12pm July 13-17, August 3-7

Nuts About Nature: K & 1st Graders. Learn many exciting aspects of the environment through hands-on and minds-on activities. Exploring forest and pond and discovering who lives there will help make your child a nature nut! Enjoy a week of outdoor exploration, hikes, arts and crafts, stories, and games. 9am-12pm June 29-July 3, July 20-24

Out of This World: K & 1st Graders. Discover what lies in space beyond the earth including the moon, planets and stars! Use the sun to create sun prints and dry fruit. Build and launch rockets. Create constellations and solar system models as you explore the world beyond. 9am-12pm July 13-17, July 27-31

Kindergarteners* & 1st Graders Continued

PMEC Explorers: K & 1st Graders. Explore different habitats and creatures found around the PMEC. Use your senses and get dirty while having fun! Adventures will include bug catching, pond exploration, games, stories, crafts and more. 9am-12pm June 22-26, June 29-July 3, July 27-31

Trash to Treasure: K & 1st Graders. Learn how to use commonly thrown away items and environmental materials to create beautiful pieces of art. Reduce, reuse, and recycle things such as CD cases, yogurt containers, popsicle sticks and more to create mosaics, birdhouses, etc.! 9am-12pm July 6-10, July 13-17

Wild about Nature: K & 1st Graders. Learn what is unique about mammals, birds, reptiles, amphibians, fish, insects and spiders, and discover these creatures in their natural environments. Explore PMEC habitats and learn what plants and animals need to survive. 9am-12pm June 22-26, July 20-24

***Note: Kindergarteners must be 5 by October 1st, 2009.**

2nd & 3rd Graders

Colors of Nature: 2nd & 3rd Graders. Explore the colors we find in our environment. Activities will include tie-dying, watercolor painting, discover the elements of color and create art from things we gather on nature walks. Much time will be spent outside acquiring an appreciation for the beauty of our colorful world. 9am-12pm June 29-July 3, July 13-17

Dirty Dozen Green Thumb Garden Club: 2nd, 3rd, & 4th Graders. Come learn about gardening by planting and tending individual "yardstick" gardens at the PMEC. Enjoy fun games and crafts in the garden. Learn to care for plants through weeding, watering and other gardening activities. Gain nurturing skills by having responsibility for other living things, and gain a sense of ownership and pride for foods you normally would never eat at the dinner table. Wed. afternoons 1-3pm. 7/1, 7/8, 7/15, 7/22, 7/29

Eco-Adventures: 2nd & 3rd Graders. Join in our eco-adventure games while gaining an appreciation of your natural surroundings. Learn to minimize your impact on the environment. Be prepared to do a lot of moving around. 9am-12pm July 13-17, July 20-24

Fly Me to The Moon: 2nd & 3rd Graders. Have you ever wondered how those rocket scientist do what they do? How did we end up on the moon? Build a rocket, a Mars Rover, a Moon Lander, a Solar system model or perhaps a Star Chart. 9am-12pm June 22-26, Aug 10-14

Misunderstood Animals: 2nd & 3rd Graders. Prepare to dispel some of the most common wildlife myths as you learn about many of nature's most controversial creatures. Discover the world of skunks, spiders, snakes and more! 9am-12pm July 6-10

Musical Nature: 2nd & 3rd Graders. Explore how nature inspires music with your singer/fiddler/naturalist leader - from 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 original composition to be finished and recorded by the end of the week. No previous musical background required! June 22-26 9am-12pm

Nature's Inspirations: 2nd & 3rd Graders. Come experience art from art's original source "nature". There will be collections of natural curios to be used as subjects or in art crafts. During the week we will hike, draw, paint, construct, craft and wade in woodland streams (weather permitting). 9am-12pm July 27-31, August 17-21

Things with Wings: 2nd & 3rd Graders. Use binoculars, nets and bug boxes to observe things with wings. Any creature that flies (from bats to birds to butterflies) could be investigated. Owl pellet dissection, games, stories, and crafts are all part of this fun week. 9am-12pm July 13-17, July 27-31

Wet & Wild: 2nd & 3rd Graders. 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. NOT FOR CHILDREN UNWILLING TO GET WET AND MUDDY EVERY DAY. 9am-12pm June 29-July 3, July 6-10, July 13-17, July 20-24, Aug 3-7, Aug 10-14

Wonders of Wild Life: 2nd & 3rd Graders. Spend an enchanting week discovering the wonders of wildlife. Learn about mammals, birds, reptiles, amphibians, fish, insects and spiders, and discover these creatures in their natural environments. Explore PMEC habitats and learn what plants and animals need to survive. 9am-12am July 6-10, July 20-24, Aug 3-7

Woodland Indians: 2nd & 3rd Graders. Immerse yourself in the world of the Woodland Indians of long ago. Explore their culture through storytelling, crafts, games and adventures. 9am-12pm June 29-July 3, Aug 3-7

Woodland Fairy Adventures

Experience the abundance, beauty and mystery of the forest through observation, gathering and creativity. Using materials found and collected in nature, children will be guided and inspired to work together to design and build magical Fairy houses (in each of the morning sessions) and Fairy Furniture (in each of the afternoon sessions). With a little creative ingenuity, some helpful guidance and tricks of the trade fairy houses and wee fairy furniture will come to life.

Fairy songs, storytelling and a closing *Celebration Tea* will all be part of the fun at this enchanting, summer escapade. Come dressed in creative fairy clothing if you'd like! Sign up for the morning session, afternoon session or both sessions!!

Grades 1-3 June 22-26 Fairy Houses 9am-12pm Fairy House Furniture 1-4pm

Fairy lore, fairy art & a closing *Celebration Tea* will all be part of the fun at this enchanting, summer escapade. Come dressed in creative fairy clothing if you'd like! Sign up for the morning session, afternoon session or both sessions!! **Grades 4 & 5 Aug 17-21** Fairy Houses 9am-12pm Fairy House Furniture 1-4pm

4th & 5th Graders

All Charged Up!! 4th & 5th Graders. Imagine spending a week doing safe, hands-on, battery-operated experiments in our science laboratory. You will discover how a battery works. You will make a battery-operated quiz game, steady-hand game, circuits, motor, electromagnet, burglar alarm, telegraph, flashlight, and a compass. 9am-12pm July 6-10, Aug 3-7

Bees Knees: 4th & 5th Graders. Learn about the wonderful world of bees! Make beeswax candles and hand cream; build a hive; learn about bee's social structure thru games; and dissect a bee. Interact with real live beekeepers and marvel at their demonstration bee hive. 9am-12pm July 13-17, August 3-7

Let's Go Fishing NH! 4th & 5th Graders. Spend the week exploring and fishing the streams, ponds, and lakes of the Souhegan Valley with expert instructors from NH Fish & Game. Transportation to and from fishing site NOT included. 9am-12pm June 22-26

Did You Ever Wonder Why? Young Scientists 4th & 5th Graders. Spend the week immersed in science! A variety of hands-on experiences will take place each day. Learn about energy/electricity, machines, magnetism, sound, light, color, mirrors/lenses, solids, liquids, and gases. 9am-12pm June 29-July 3, July 27-31

Mini Science Fair: 4th & 5th Graders. Spend the week in our science laboratory deciding on a project with the help of your instructor. Then you will plan your project, gather materials, and assemble the project. Working with a partner will be permitted. Your project will then be judged and awards will be presented to all. Children and PMEC teachers will then view your project. 9am-12pm July 13-17, August 10-14

Nature's Inspirations: 4th & 5th Graders. Come experience art from art's original source "nature". There will be collections of natural curios to be used as subjects or in art crafts. During the week we will hike, draw, paint, construct, craft and wade in woodland streams (weather permitting). 9am-12pm August 10-14, August 17-21

Nature Challenge: 4th & 5th Graders. Challenge yourself and your group by working together to build unique contraptions, conquer amazing challenges and explore new and interesting activities. This class focuses on skill building to inspire group and individual skills. 9am-12pm July 6-10

Outdoor Awareness Skills I: 4th & 5th Graders. Learn and practice the fundamentals of camp craft and wilderness survival. This program includes instruction in safety, shelter construction, trail cuisine, fire building, orientation skills, and animal tracking. 9am-12pm July 27-31

Pond Creatures and Plants: 4th & 5th Graders. 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. 9am-12pm June 22-26, July 20-24, Aug 10-14

Rock On!! 4th & 5th Graders. Learn about volcanoes, earthquakes and layers of the earth. In this geology class, we will hunt for rocks of different shapes, sizes and colors. With close investigation we will discuss details of these rocks and try to classify them according to their properties. 9am-12pm July 13-17, Aug 3-7

Save the Planet: 4th & 5th Graders. Discuss ways to keep our planet clean by reducing, reusing and recycling. Learn about different types of pollution and discover ways in which it harms living organisms in our environment. Develop and implement a class recycling project. 9am-12pm July 20-24, July 27-31

Time Out for Creativity! 4th & 5th Graders. Let's get creative outdoors! For this art class we will incorporate the outdoors into a masterpiece. While on nature hikes, destinations will be chosen along the way where children will draw what they see. By collecting items from these spots, we will use them to form art pieces. 9am-12pm June 29-July 3

Who Done It? Forensics: 4th & 5th Graders. 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 samples, collecting fibers, making casts of shoe prints, comparing soil samples, conducting hair analysis, learning about lip prints, comparing unknown powders, and separating colors. 9am-12pm June 22-26, July 20-24

6th, 7th & 8th Graders

Backyard Mysteries: 6th, 7th & 8th Graders. A drawing/art/craft class that looks into the weird and unknown that lurks beneath our feet. What happens to these creatures during the day? Learn and re-create the patterns of nocturnal flora and fauna. 9am-12pm July 27-31, Aug 10-14

Bushwhacking in the Woods: 6th, 7th & 8th Graders. 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 (all over globe!). Be prepared to get dirty, hike 3 hours, get lost and found! 9am-12pm Aug 10-14

Capture the Flag, With a Twist: 6th, 7th & 8th Graders. 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! It is helpful to have taken an Outdoor Awareness Skills class prior to participating in this class. 9am-12pm Aug 10-14, Aug 17-21

Deepening Your Appreciation of Nature with Pen and Camera: 6th & 7th Graders. Published author and award winning garden photographer Melissa Mannon will stretch your creativity and help you deepen your appreciation of your natural surroundings. You will begin a nature diary that will encourage you to more intently observe and document your surroundings, improving your photography and writing skills. Bring a camera (it doesn't have to be fancy,) a new journal and a pen. 9am-12pm Thursdays 7/9,7/16,7/23,7/30

Dig It Up? 6th, 7th & 8th Graders. Discover the amazing world of archeology. Learn what secrets lay beneath the ground and participate in an archeological dig. Unearth what has been left behind by our ancestors and approximate how long it has been there by looking at layers of soil and shapes of rocks. 9am-12pm July 6-10, July 20-24

Dissection: 6th, 7th & 8th Graders. Budding biologists will love to spend the week learning about the anatomy of several different creatures. This program introduces beginner to basic dissection techniques and internal and external anatomy of 4 very different animals: earthworm, crayfish, grasshopper, and frog. 9am-12pm June 22-26

Mosaic Creations: 6th, 7th & 8th Graders. Collect and combine natural stones and objects to create beautiful garden mosaics. 9am-12pm June 22-26, August 17-21

Nature Challenge: 6th, 7th & 8th Graders. What kinds of challenges can you find in nature? Find out how animals are challenged everyday, and connect that to how we are challenged by things as humans. Challenge yourself and your group by working together to conquer amazing challenges and explore new and interesting activities. This class focuses on skill building to inspire group and individual skills. 9am-12pm June 29-July 3

Outdoor Awareness Skills II: 6th, 7th & 8th Graders. Learn and practice more fundamentals of camp craft and wilderness survival. This program includes instruction in safety, shelter construction, trail cuisine, fire building, orientation skills, and animal tracking. Teacher will assess skill level of the class and build on concepts learned in Outdoor Awareness Skills I. All are welcome to attend whether or not they have attended Outdoor Awareness Skills I. 9am-12pm Aug 3-7

Outdoor Survival - Learn to Return: 6th, 7th & 8th Graders. Advanced camp craft and wilderness survival. This program includes instruction in safety, shelter construction, trail cuisine, fire building, orientation skills, and animal tracking. Teacher will assess the skill level of the class and build on concepts learned in Outdoor Awareness Skills classes. All are welcome to attend whether or not they have attended Outdoor Awareness Skills. 9am-12am July 6-10, Aug 10-14

Power UP! - Create Energy from Nature: 6th, 7th & 8th Graders. Learn about solar, geothermal, water, friction, and electro magnetism. Build a hovercraft from CDs as well as other energy projects from everyday materials. 9am-12pm July 20-24

Water Works: 6th, 7th & 8th Graders. Spend the week learning all about this amazing natural resource. Is water necessary for life? Why do some things float on water? What's in pond water? Learn what's behind water and its amazing power. Discover how water wheels and steam engines work. This week long program will include experiments, games, crafts, hikes and many other exciting activities. 9am-12pm July 13-17

Woods Lore 101: 6th, 7th & 8th Graders. This is not your run-of-the-mill (no pun intended) macaroni mosaic art class. This week we will make hats or baskets from birch bark, weave cattail rushes, and/or carve beautiful wooden bowls. We will wander far and wide gathering all our materials from the forests and fields at Peabody Mill. 9am-12pm Aug 17-21

High School Students to Adults

Deepening Your Appreciation of Nature with Pen and Camera: 9th Graders through Adult. Published author and award winning garden photographer Melissa Mannon will stretch your creativity and help you deepen your appreciation of your natural surroundings. You will begin a nature diary encouraging you to more intently observe and document your surroundings, improving your photography and writing skills. Bring a camera (it doesn't have to be fancy,) a new journal and a pen. Tuesdays 6-8pm 6/30, 7/7, 7/14, 7/21, 7/28, 8/4

High School Students to Adults Continued

Digital Nature Photography: 9th Graders through Adult. Spend the week learning all about digital photography and then head outside to practice what you have learned. Topics will include composition, exposure, focusing, lighting, camera equipment and more. Students will need to bring a camera (digital strongly preferred) and be able to operate it in point and shoot mode. Don't forget to bring enough film or memory and batteries! 1-4pm June 22-26, July 20-24, August 10-14

Environmental Sculpture: 9th Graders through Adult. Enjoy hiking? Color? Pattern? Spend the week creating your own unique sculptural forms using all natural objects. We will use found objects such as leaves and rocks to create sculptures in nature. Finished work will be photographed and matted. 10am-12:30pm July 20-24

Exploring Nature through Drawing: 9th Graders through Adult. Do you enjoy looking at the moss on rocks and the texture of bark as you walk through the woods? Here is your chance to explore the natural world through the drawing process of direct observation. We will be making sketchbooks to use all week to document the sights, sounds, and textures of the natural world. 10am-12:30pm July 27-31

Environmental Education Service Learning Project: 9th-12th Graders. Spend time outdoors working on various community service projects, including bridge building and a variety of other projects for PMEC! 1-4pm June 22-26, July 6-10, July 13-17, July 20-24

Hartshorn in the Afternoon ~ For All Elementary and Middle School Students

Hartshorn in the Afternoon: Spend the afternoon in an idyllic setting exploring nature! Enjoy a relaxing lunch with friends before spending hours engaged in fun activities. This loosely structured afternoon adventure can include science and nature experiments, exploring the land and trails around PMEC, wading through brooks and streams, nature crafts, stories, games and more. Children will come home excited to share stories about fishing, collecting frogs and bugs, and making new friends. For 1st- 8th grade students 12:00-5:30PM

High School Students entering grades 9-12 are invited to volunteer in the Hartshorn Program to satisfy their **Community Service** requirement for graduation. This is an opportunity for students to engage in a new activity, interact with kids and teachers alike and perhaps learn something new about our environment.

Families

Boat Building: Build a 15.5' canoe which is light and fast, a flat-water and gentle river capable boat that is a real pleasure to paddle. A complete description will be posted at our website For ages 8-12 with parent, older sibling or grandparent, 13 and up solo. 8:00am- 3:30pm Aug 17-21 (Note Special Pricing)

A Night with Nature: Nestled in a local secluded site join us for a family camping trip. A parent, guardian or adult chaperone must register and accompany children. Program includes tent and evening activities. A further description and a list of basic supplies needed for the overnight outing will be posted at our website July 11-12

Hartshorn Program Registration Fee Schedule:

Full Week at Hartshorn 9:00am-noon \$90 Res, \$100 NonRes
Full Week Morning Care at Hartshorn 7:30-9:00am \$20 Res, \$30 NonRes
Full Week Afternoon at Hartshorn noon-5:30pm \$85 Res, \$95 NonRes
Full Week All Day at Hartshorn 7:30am-5:30pm \$175 Res, \$185 NonRes*
Daily Afternoon at Hartshorn noon-5:30pm \$20 Res, \$30 NonRes
Pre-Schoolers, Toddler in the Woods All 9 Weeks \$50 Res, \$60 NonRes
Pre-Schoolers, Toddler in the Woods Single Week \$7 Res, \$8 NonRes
Pre-Schoolers, Make & Take for Tots (9 weeks) \$50 Res, \$60 NonRes
Pre-Schoolers, Make & Take for Tots Single Week \$7 Res, \$8 NonRes
Dirty Dozen Garden Club (7 Weeks) \$70 Res, \$80 NonRes
Build A Boat \$390 Res, \$395 NonRes

*Please contact the recreation office to arrange for this program.

Pre-registration is required for all programs. Please be sure that the email address we have in our registration system is still valid for your household because that is where we will send all communication relative to the class(s) that you have registered for. Registration confirmation will come via email after you register.

Register online at www.amherstrec.org, in person at the recreation office, or call us at 603-673-6248 or 603-672-1141.