

School Programs & Programs for Educators

2011–2012

Shelburne Farms' School Programs promote both student learning and professional development. We offer a variety of on-site programs, explorations in your community, educator workshops, and more. We emphasize hands-on, inquiry-based learning for students, and the opportunity for teachers to assess their students and work alongside our education team.

K-3 4-8 SCHOOL FIELD TRIPS

AT THE FARM:

Grades K-8 field trips are invited to visit the farm to investigate agricultural and ecological themes based on seasonal activity on the farm.

PLACE-BASED LEARNING OPPORTUNITY:

Host an exploration in *your* neighborhood! Our educators can bring many field trip topics to a special place in your school community.

These programs are by lottery. Lottery forms (p. 7), are due April 29, 2011. The fee for K-3 Field trips is \$6 per student. The fee for 4-8 is \$7 per student.

We hope you enjoy
our new format!

K-8 CHILDREN'S FARMYARD VISITS

Give students a hands-on opportunity to discover the important role farms play in their lives. Field trips are self-guided. You are free to explore at your own pace, and participate in any hands-on activities offered every half hour beginning at 10:30 AM. Teachers, chaperones, and students can also explore the hiking trails, bakery, woodshop area, and cheese making near the farmyard. **The Children's Farmyard fee is \$4 per student (1 adult admitted free with every 5 students, \$6/additional adult)**

E EDUCATOR WORKSHOPS & COURSES

Build a stronger connection between your curriculum, the state standards, grade expectations, and the land. Explore our newest workshop series for teachers at our afterschool "Clubhouse." The Farm also offers a variety of Professional Development opportunities for educators to enhance their knowledge around a variety of subjects.

PLEASE INQUIRE ABOUT OUR SCHOLARSHIP OPPORTUNITIES



OUR MISSION

The mission of Shelburne Farms is to cultivate a conservation ethic for a sustainable future.



Fall Field Trips K–8

K-3

For more information: Margaret Burke, 802–985–8686, mburke@shelburnefarms.org

Farm to You SEPTEMBER

Discover the importance of farms as our source of food. Students collaborate to make pizza from scratch! Grind wheat berries and make dough! Milk a cow and make cheese! Harvest fresh vegetables for sauce and toppings.

STANDARDS: Natural Resources, 7.16; Sustainability, 3.9; Understanding Place, 4.6

S1-2 GE'S: 31 (a); 34(a); 35 (a); 41 (a,b); 47 (a); 49 (a)
S3-4 GE'S: 30 (a); 31 (a); 34(a); 35(a,b); 36(a); 38(a); 39(a); 41 (a); 49(a,b)



Fall Forest Ecology

OCTOBER

PLACE-BASED

Gain insight into the value of the forest as a habitat and as a natural resource. Connect to the land through sensory exploration. Examine forest life cycles through hands-on tree anatomy and identification activities.

STANDARDS: Organisms, Evolution, & Interdependence, 7.13; Understanding Place, 4.6; Investigation, 7.2

S1-2 GE'S: 31 (a); 34(a); 35(a); 39(a); 47(a); 48(a,b); 49(a)
S3-4 GE'S: 30(a); 31(a); 34(a); 35(a,b); 36(a); 38(a); 39(a); 46(a); 49(a,b)

Farm Life & History NOVEMBER

Connect past to present and explore the value of agriculture in our lives. Investigate tools from the past and discover change over time. Through chores such as candle making and spinning wool, gain a sense of life on a Vermont farm in the late 1800's and early 1900's.

STANDARDS: Historical Connections, 6.4; Being a Historian, 6.5

S1-2 GE'S: 35 (a); 41 (a,b,c); 47(a); 49(a)
S3-4 GE'S: 30(a); 34(a); 35(a,b); 36(a); 49(a,b)

4–8

For more information: Margaret Burke, 802–985–8686, mburke@shelburnefarms.org

Wetland Ecosystem Investigation

SEPTEMBER

PLACE-BASED

Discover the functions and characteristics of wetlands through hands-on activities. Identify adaptations of common wetland plants and critters, dig into properties of wetland soil, and determine water quality using biotic factors!

STANDARDS: Analysis, 7.11; Organisms, Evolution, and Interdependence, 7.13; Understanding Place, 4.6

S3-4 GE'S: 30 (a); 31 (a); 34(a); 35(a,b); 36(a); 38(a); 39(a); 46(a,b); 49(a,b)
S5-6 GE'S: 30(a); 33(a); 34(a,b); 35(a); 36(a); 37(a); 39(a); 48(a); 49(a)



Digging Deeper into Harvest Science

SEPTEMBER & OCTOBER

Get dirty helping with the harvest at the Market Garden! Investigate plant and soil science, nutrients, and cycles through gardening. Explore energy flow and interdependence while connecting to the land.

STANDARDS: Understanding Place, 4.6; Sustainability, 3.9; Living World, 7.13; Natural Resources & Agriculture, 7.16; Matter, Motion & Forces of Energy, 7.12

S3-4 GE'S: 30 (a); 31 (a); 34(a); 35(a,b); 36(a); 38(a); 46(a); 49(a,b)
S5-6 GE'S: 34(a,b); 35(a); 37(a); 49(a)

Stories in Stone

SEPTEMBER & OCTOBER

Explore basic geologic processes that have shaped and transformed our earth, including rock formation and weathering. Discover the rich geologic history of our region through hands on activities and scientific exploration.

STANDARDS: Natural Resources, 7.16; Scientific Method, 7.1; Theories, Systems, and Forces, 7.15; Investigation, 7.2; Application, 2.6; Understanding Place, 4.6

S3-4 GE'S: 3(a,c); 4(a,b); 5; 6; 7; 8; 35(a,b); 36(a); 46(a,b,c,d); 47(a); 48(a,b); 49(a,b)
S5-6 GE'S: 3; 4(a); 5; 6; 7; 8; 34(a); 35(a); 36(a); 39(a); 46(a,b); 47(a,b,c); 48(a); 49(a)

K-8 CHILDREN'S FARMYARD

For more information: Keely Deutsch, 802–985–8686, kdeutsch@shelburnefarms.org

Autumn at the Farm

SEPTEMBER & OCTOBER 2011

Fall is an excellent time to visit the Farmyard! With fewer vacationing visitors, the pace is a bit slower, which can allow for a more personal, one-on-one, experience. A fall field trip is a unique opportunity to engage and interact with your students at the beginning of the school year!



PLEASE INQUIRE ABOUT OUR SCHOLARSHIP OPPORTUNITIES

Winter Field Trips K-8

K-3

For more information: Margaret Burke at 802-985-8686 or mburke@shelburnefarms.org

Active in Winter **PLACE-BASED** JAN. & FEB.

Explore your schoolyard, community, or Shelburne Farms for signs of active animals in winter. Examine the adaptations and strategies Vermont animals use to survive winter. Develop track identification and observational skills.

STANDARDS: Problem Solving Process, 2.2; Types of Problems, 2.3; Organisms, Evolution, & Interdependence, 7.13
S1-2 GE'S: 35(a); 39(a); 41(a,b,c); 47(a); 48(a,b); 49(a)
S3-4 GE'S: 30(a); 31(a); 34(a); 35(a,b); 36(a); 38(a); 39(a)

Sugaring Time **MARCH**

Investigate the science and wonder of maple sugaring! Follow the entire process from tapping to tasting. Identify and tap a sugar maple, gather sap, visit the sugar maker in the sugar house, and experience the history of sugaring!

STANDARDS: Historical Connection, 6.4; Roles and Responsibilities, 7.5; Natural Resources, 7.16; Understanding Place, 4.6
S1-2 GE'S: 35(a); 47(a); 48(a,b); 49(a)
S3-4 GE'S: 30(a); 31(a); 34(a); 35(a,b); 36(a); 38(a); 39(a); 48(a,b,c,d); 49(a,b)



4-8

For more information: Margaret Burke at 802-985-8686 or mburke@shelburnefarms.org

Hike—Don't Hibernate! **PLACE-BASED** JANUARY

Learn about winter adventure and survival. Experience fundamental teambuilding concepts on a winter trek. Practice orienteering, animal tracking, fire building, and more!

STANDARDS: Problem Solving Process, 2.2; Application, 2.6; Information, 2.7; Taking Risks, 2.8; Persevering, 2.9; Fluency, 2.10; Flexibility, 2.12; Informed Decisions, 3.7; Relationships, 3.10 - 3.13; Geography, 6.7
S3-4 GE'S: 30(a); 34(a); 41(a); 48(a); 49(a,b)
S5-6 GE'S: 33(a); 34(a,b); 39(a); 41(a,b); 49(a)



Sugaring by the Numbers **MARCH**

Engage in the math and science of maple sugaring as students identify and measure trees to tap, calculate sap output, observe states of matter, investigate impacts of weather and climate, and experience sugaring with our educators and sugar makers.

STANDARDS: Arithmetic, Number, and Operation Concepts 7.6; Roles and Responsibilities 7.5; Natural Resources 7.16; Understanding Place, 4.6
S3-4 GE'S: 30(a); 34(a); 35(a,b); 36(a); 38(a); 39(a); 48(a,d); 49(a,b)
S5-6 GE'S: 14(a); 34(a); 36(a); 39(a); 48(a); 49(a,b)

The CHILDREN'S FARMYARD is closed in the winter

VT FEED Toolkit

4 comprehensive guides to help make Farm to School happen for you!



VT FEED is a partnership of Food Works at Two Rivers Center; NOFA-VT; & Shelburne Farms

PROJECT SEASONS

An award-winning, easy to use collection of more than 147 seasonal, interdisciplinary activities and teaching ideas developed by teachers for teachers, using low-cost and easily found materials. Each lesson includes learning objectives, grade range, and time required.

For Project Seasons workshops see page 6



Order these or any of our additional resources at: www.shelburnefarms.org



Spring Field Trips K-8

K-3

For more information: Margaret Burke at 802-985-8686 or mburke@shelburnefarms.org

Join the Flock **APRIL**

Explore the life cycle of a sheep from its birth and care to the harvest of its wool fibers. Spend time with newborn lambs and their moms and work with wool: carding, spinning, and felting.

STANDARDS: Visual Arts, 5.29-5.30; Natural Resources, 7.16; Understanding Place, 4.6; Sustainability, 3.9
S1-2 GE'S: 9(a,b); 31(a,b); 35(a); 47(a); 48(a,b); 49(a)
S3-4 GE'S: 30(a); 31(a); 34(a); 35(a,b); 36(a); 38(a); 39(a); 49(a,b)

Super Soil **APRIL & MAY** **PLACE-BASED**

Connect to the world beneath your feet and discover why soil is the basis of life on earth. Explore soil properties and composition. Meet worms and learn how they contribute to soil health with natural decomposition and composting.

STANDARDS: Investigation, 7.2; Theories, Systems and Forces, 7.15
S1-2 GE'S: 34(a); 35(a); 46(a,b); 47(a); 48(a,b); 49(a)
S3-4 GE'S: 30(a); 34(a); 35(a,b); 36(a); 38(a); 39(a); 46(a,b,c); 47(a); 48(a,b); 49(a,b)

Milk and More **MAY**

Explore a Vermont dairy farm! Visit our milking parlor, calving barn, feed alley, and manure pit to understand the processes and cycles of cows. Milk a cow and identify cow products! Process cream into butter and view cheese making!

STANDARDS: Sustainability, 3.9; Understanding Place, 4.6
S1-2 GE'S: 31(a); 34(a); 35(a); 48(a,b); 49(a,b)
S3-4 GE'S: 30(a); 31(a); 34(a); 35(a,b); 36(a); 38(a); 39(a); 49(a,b)

Pond Life Cycles & Adaptations **MAY & JUNE** **PLACE-BASED**

Explore a pond ecosystem to experience the sights, sounds, and smells of spring. Investigate life cycles and adaptations of pond insects and amphibians. Discover how creatures adapt to eating, moving, and surviving in their watery world.

STANDARDS: Organisms, Evolution, and Interdependence, 7.13; Problem Solving Process, 2.2; Understanding Place, 4.6
S1-2 GE'S: 31(a); 34(a); 35(a); 39(a); 47(a); 48(a,b); 49(a)
S3-4 GE'S: 30(a); 31(a); 34(a); 35(a,b); 36(a); 38(a); 39(a); 49(a,b)



4-8

For more information: Margaret Burke at 802-985-8686 or mburke@shelburnefarms.org

Simple Machines on the Farm

APRIL & MAY

From hauling bales and tilling soil to grinding grain and mucking pens, simple machines help the farm! Investigate how they work through engaging in chores, experimenting with tools, and participating in inquiry-based exploratory activities.

STANDARDS: Questioning/Problem Solving, 2.1, 2.2; Sustainability, 3.9; Understanding Place, 4.6; Inquiry, Experimentation & Theory, 7.1-7.2; History of Science, Mathematics, & Technology, 7.4; Matter, Motion, Forces, & Energy, 7.12; Organisms, Evolution, & Interdependence, 7.13; Design & Technology: Outputs & Impacts, 7.18; Designing Solutions, 7.19
S3-4 GE'S: 1; 2; 21(a,b)
S5-6 GE'S: 1; 2; 21(a,b,c); 22(a,b)

Ins and Outs of a Cow **MAY**

Get up close and personal with cows at the dairy! Discover what goes into raising cows and what they give out in return. Explore relationships between human and animal health, genetics, reproduction, and anatomy. Partake in the energy flow from farm to table through cheese making.

STANDARDS: Understanding Place, 4.6; Sustainability, 3.9; Natural Resource & Agriculture, 7.16; Human Body, 7.14
S3-4 GE'S: 12(a); 31(a); 34(a); 35(a,b); 39(a); 40(a); 41(1); 42(a)
S5-6 GE'S: 34(a,b); 40(a); 41(a,b); 49(a)



K-8 CHILDREN'S FARMYARD

For more information: Keely Deutsch, 802-985-8686, kdeutsch@shelburnefarms.org

Spring Farmyard Visits

MAY & JUNE 2012

Spring marks the opening of the farmyard, with all its new arrivals. From chicks to lambs, and from calves to piglets, the farm's newborns are sure to make a visit to the farmyard a memorable experience!



PLEASE INQUIRE ABOUT OUR SCHOLARSHIP OPPORTUNITIES



Children's Farmyard

A visit to the Children's Farmyard offers youngsters a hands-on opportunity to discover the important role that farms play in their lives. Field trips are self-guided: you are free to explore at your own pace! Hands-on activities (such as milking a cow or working with wool) are offered every half hour beginning at 10:30. You may participate in any or all of these activities. Teachers, chaperones, and students can also explore the hiking trails, bakery, woodshop area, and cheese making near the farmyard. Groups typically visit for 1-2 hours, but are welcome to spend more time in educational exploration if desired!



Teacher's Clubhouse Programs

For more information: Margaret Burke, 802-985-8686, mburke@shelburnefarms.org

TIME: 4:00 PM-7:00 PM **FEE:** \$50 (materials, supplies, & light fare included)

Join us after school in the "Clubhouse" for adventures on the land followed by hands-on activities for your classroom. Stay to make teaching props and materials to bring the magic back to your students.

Sowing a Reading Garden
Wednesday, APRIL 27, 2011

Cultivate literacy lessons through an afternoon in the garden. We'll help with spring planting and focus on merging reading and writing with science. Create a resource list for your classroom and hands-on activities to accompany your favorite children's books.

ABC's of Wetlands and Ponds
Wednesday, OCTOBER 5, 2011

Put on your muck boots and join us for an afternoon of discovery with Amphibians, Birds, Cattails, and more! We'll dip for macro invertebrates and look under logs for salamanders. Start working on your "Dress Up a Water Critter" prop collection to help your students connect to animal adaptations through role play!

Chore Explore: Fiber and Felt
Wednesday, MARCH 21, 2012
Program 3:00-6:00 PM!

Help Farmer Sam in the barn with afternoon sheep chores! We'll explore Vermont's historic and economic tradition of shepherding and learn about fibers, too! Try spinning and felting and bring back wool activities to do with your class!

Cycles in Spring
Wednesday, APRIL 18, 2012

Cycles are happening in springtime on the farm! We examine the beginning-of-life cycles from the forest to the barn, soil cycles in the garden and in the grass, nutrient cycles and weather cycles in our farming and in our food! Dive into cycle studies by getting out on the land and creating a prop to accompany your favorite cycle study.



Courses for the Educator in All of Us

For more information: www.shelburnefarms.org

Principles & Promising Practices of Place-Based Education

Saturday–Monday, JUNE 25–27

INFORMATION: Jen Cirillo, jcirillo@shelburnefarms.org, 802–985–0315

Learn about the fundamentals and methods of Place Based Education. The workshop includes time to synthesize your learning as well as one on one consultation with resource specialists. Come with one or more colleagues from your school or community to enhance your learning and implementation.

Community Works Institute on Service–Learning

Monday–Friday, JULY 18–22

TIME: 8:30 AM–4:30 PM **INFORMATION:** Joe Brooks, jbrooks@communityworksinstitute.org or general info: 909–480–3966

This Institute provides K–16 teachers, community educators, and administrators with training, models, strategies, and resources for developing service-learning and sustainability as an integrated curriculum.

Teaching in Community

Sunday–Thursday, JULY 24–28

TIME: Sunday 5 PM for evening program through Thursday at 3:30 PM
INFORMATION: Jen Cirillo, jcirillo@shelburnefarms.org, 802–985–0315

This 4–day workshop provides teachers with the opportunity to deepen their understanding of community and sustainability. Consider natural and urban environments as sites for inquiry, civic engagement, and deep learning.

Education for Sustainability (EFS) Institute

Tuesday–Thursday, AUGUST 2–4

TIME: 8:30 AM–4:30 PM
INFORMATION: Jen Cirillo, jcirillo@shelburnefarms.org, 802–985–0315

Join fellow PreK–12 educators to build strategies and skills for using sustainability as a theme to connect curriculum, campus practices, and community engagement.

PROJECT SEASONS

For more information: Linda Wellings, 802–985–0308, lwelling@shelburnefarms.org

Project Seasons Summer Workshop

Tuesday–Thursday, JULY 26–28, 2011

Enrich your early childhood curriculum with exciting, interdisciplinary, and hands–on, teacher–friendly activities on environmental and agricultural topics. This workshop is designed to increase science literacy and cultivate connections by tracing the food we eat and the clothes we wear back to the farm.

Project Seasons In–Service & On–Farm Workshops

Custom–designed to help teachers address science grade–level expectations and to facilitate farm education programs.

- One–day school visits by our staff
- Graduate–level courses during school year
- One– or multi–day consultations on your farm with you and/or your farm cooperative group.

“We loved how well prepared Shelburne Farms teachers are to manage diverse groups. We loved that each teacher took the time to remember the names of our students. Great management skills throughout.”

–Monica Lubic,
Charlotte Central School



“I think so many kids no longer have the opportunities to be outside and to explore. They don’t even know how. This experience provides them with this and gets them excited. We look forward to our Shelburne Farms people coming to us every year!”

–Karin Birbeck,
Wells Village School



School Programs Application Form

School _____

Grade(s) _____

School Address _____

city/state/zip _____

Teacher 1: Name _____

Email _____

Phone (H) _____ (W) _____

Home[†] Address _____

city/state/zip _____

[†]We prefer to mail the School Programs flyer to your home address in an effort to reduce the volume of mail at school mailrooms and to increase likelihood of delivery. Shelburne Farms does not sell or trade its mailing lists.

Total # of students _____

Transportation: Bus Cars

Teacher 2: Name _____

Email _____

Phone (H) _____ (W) _____

Home[†] Address _____

city/state/zip _____

LOTTERY REMINDERS:

1. Please check with colleagues regarding field trip(s) they may have attended previously to avoid repetition. (This does not apply to Children's Farmyard visits.)
2. Please list a 1st and 2nd field trip choice, in case we are unable to schedule your 1st choice.
3. ONE field trip per class. Two teachers applying together should send in ONE application.
4. Check "Place-Based" to host Shelburne Farms educators in your community.

FALL FIELD TRIPS

- ___ Farm to You *only at Shelburne Farms*
- ___ Fall Forest Ecology Shelburne Farms **PLACE-BASED***
- ___ Farm Life & History *only at Shelburne Farms*
- ___ Wetland Ecosystem Shelburne Farms **PLACE-BASED***
- ___ Digging Deeper *only at Shelburne Farms*
- ___ Stories in Stone *only at Shelburne Farms*

WINTER FIELD TRIPS

- ___ Active in Winter Shelburne Farms **PLACE-BASED***
- ___ Sugaring Time *only at Shelburne Farms*
- ___ Hike—Don't Hibernate! Shelburne Farms **PLACE-BASED***
- ___ Sugaring by the Numbers *only at Shelburne Farms*

SPRING FIELD TRIPS

- ___ Join the Flock *only at Shelburne Farms*
- ___ Super Soil Shelburne Farms **PLACE-BASED***
- ___ Milk & More *only at Shelburne Farms*
- ___ Pond Life Cycles & Adaptations Shelburne Farms **PLACE-BASED***
- ___ Simple Machines on the Farm *only at Shelburne Farms*
- ___ Ins & Outs of a Cow *only at Shelburne Farms*

The fee for K-3 Field Trips is \$6 per student. The fee for 4-8 is \$7 per student.

* For all PLACE-BASED Programs in your community, there is an additional fee of \$0.485/mile for educator travel.

To apply for a farmyard visit:

Please enter your first and second choices for month and time of visit. All months and times are listed below.

CHILDREN'S FARMYARD

	FALL	SPRING
	September 2011	May 2012
	October 2011	June 2012
MORNING	AFTERNOON	AFTER SCHOOL
9:30 AM	12:00 PM	3:00 PM
10:00 AM	12:30 PM	3:30 PM
10:30 AM	1:00 PM	
	1:30 PM	

1ST CHOICE:

Month: _____

Time: _____

2ND CHOICE:

Month: _____

Time: _____

The Children's Farmyard fee is \$4 per student (1 adult admitted free with every 5 students, \$6/additional adult).

School Programs & Programs for Educators

2011-2012

SHELburne
FARMS

