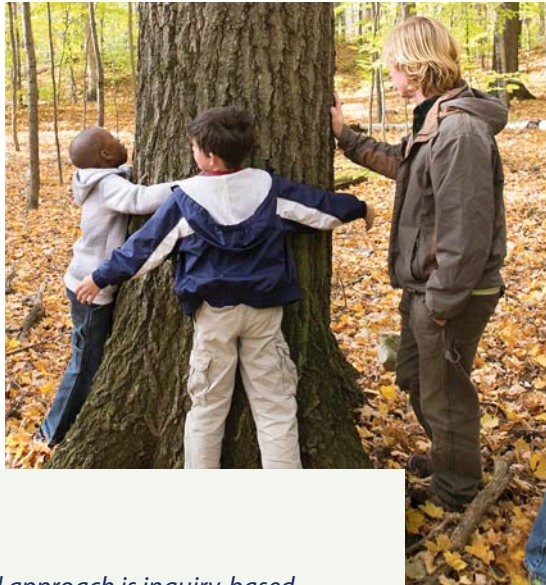




Shelburne Farms School Programs

2015 • 2016



Dear Educators,

At Shelburne Farms our pedagogical approach is inquiry-based and experiential, using the promising practices of education for sustainability. Our programs give students the opportunity to deepen their connections to place and each other while fostering their natural curiosity. We are committed to working with you to design programming that meets your curricular goals while connecting with the Common Core State Standards and Next Generation Science Standards.

We have a couple exciting new developments this year! For the first time, we're partnering with several area organizations — Burlington City Arts, UVM Watershed Alliance and Winooksi Valley Park District — to strengthen and update our offerings. And we're excited to move toward an online registration system! As always, we look forward to seeing you next year in our school programs, children's farmyard, and professional development!

In appreciation for all you do,

Christie

Christie Nold
SCHOOL PROGRAM
COORDINATOR

Jen

Jen Cirillo, DIRECTOR
OF PROFESSIONAL
DEVELOPMENT

Catherine

Cat Wright, FAMILY
PROGRAMS COORDINATOR
& FARM-BASED EDUCATOR



We have designed our 2015–16 school programs to:

- Offer youth opportunities to uncover content and engage in the practices outlined in the Common Core State Standards and Next Generation Science Standards
- Engage learners of all ages and abilities in inquiry through experiential learning
- Reflect the natural cycle of the school year and season, from community building in the fall to celebration in the spring.
- Partner with area organizations committed to connecting students with their place through science and the arts.

All of our programs align with one or more big idea that frames the learning experience and builds connections between the program and your curriculum.

School Program Registration Deadline:

May 20, 2015

Please inquire about scholarship opportunities.
Contact Christie Nold: chnold@shelburnefarms.org

www.shelburnefarms.org



School Programs for the Seasons

Information: Christie Nold, chnold@shelburnefarms.org, 802-985-0319 ■ Register online: www.shelburnefarms.org

Fall

AT THE FARM | Grades K–3rd

FEE: \$7/student+

Farm to You

BIG IDEA: COMMUNITY & CYCLES

Strengthen community in your classroom while creating a pizza together! Collaborate to make pizza from scratch while exploring cycles on the farm — grind wheat berries, milk a cow, and harvest toppings! The program culminates in a pizza celebration!

Super Soil

BIG IDEA: INTERDEPENDENCE

Connect to the world beneath your feet! Explore soil properties, composition, and the connection between soil and all living things. Meet worms, learn about their structure and function, and explore how they contribute to soil health. Consider how garden soils differ from forest and field soils and the reasons why we are not living in a tomato planet!

Forest Ecology

BIG IDEA: DIVERSITY & COMMUNITY

Connect to the forest through sensory exploration and play! Search for life in the forest — in trees, tunnels, and under logs! Gain insight into the value of the forest as a diverse habitat and natural resource. *Super Soil elements can be integrated into this program. Please contact us.*

Farm Life and History

BIG IDEA: CHANGE OVER TIME

Connect past to present and explore the value of agriculture in our lives. Investigate change over time by participating in animal chores, candle making, butter making, and spinning wool. Together we will gain a sense of life on a Vermont farm long ago.

AT THE FARM | Grades 4th–8th

FEE: \$8/student+

The Science of Farming

BIG IDEA: INTERDEPENDENCE

Experience the interdependence of agricultural and natural communities. Participate in chores and explore the surrounding natural area as we ready the farm for summer. *This trip can be adapted to include a service learning component with added communication prior to your visit.*

Special program

Art in Nature

BIG IDEA: PLACE
in partnership with Burlington City Arts **BCA**
Explore the nature inspired exhibits at *Of Land and Local*. We will examine art installations designed to reflect issues surrounding the Vermont landscape and engage in nature-inspired artwork on the beaches and fields near the Coach Barn.



Stories in Stone

BIG IDEA: CHANGE OVER TIME

Explore the geologic processes that have shaped and transformed our earth, including rock formation and weathering. Examine the rich geologic history of our region through hands-on activities and scientific exploration designed to explore change over time in natural cycles.

OUTREACH* | Explore your own schoolyard!

2 hrs: \$4/student | 4 hrs: \$8/student | +\$0.485/mile

Forest Ecology

BIG IDEA: DIVERSITY & COMMUNITY

Connect to the forest through sensory exploration! Using your school yard or local park, we will search for life in the forest — in trees, tunnels, and under logs! Gain insight into the value of the forest as a diverse habitat and natural resource through exploration and play.

Super Soil

BIG IDEA: INTERDEPENDENCE

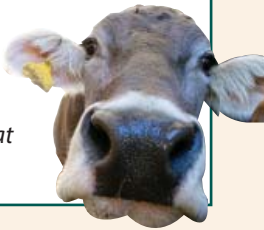
Connect to the world beneath your feet in your community! Explore soil properties, composition, and the interdependence of soil with all living things. Meet worms, learn about their structure and function, and explore how they contribute to soil health. Consider how garden soils differ from forest and field soils and the reasons why we are not living in a tomato planet!

Dairy in the Classroom

in partnership with New England Dairy & Food Council, and Vermont Agency of Agriculture, Food & Markets

BIG IDEA: CYCLES & COMMUNITY

The Dairy in the Classroom program is an excellent way for students to engage with their food system and Vermont's history while understanding the value of agricultural lands. The program includes five classroom visits with hands-on activities, taste tests and cooking, as well as a culminating visit to a local dairy farm. *For information and to apply, contact Dana Hudson at dhudson@shelburnefarms.org*



Winter

Active in Winter

BIG IDEA: PLACE

Investigate the fields and forests at Shelburne Farms for signs of animals that are active in winter. Using the trails and indoor forest, we will follow track patterns in search of stories in the snow. Together we will examine animal activity and winter adaptations through play.



Tracking

BIG IDEA: ADAPTATIONS & PLACE

Uncover stories in the snow through use of field guides and informational text! Investigate the adaptations and survival techniques that allow animals to stay active in the winter. Develop track identification and observational skills while exploring prints, patterns, and places.



Hike, Don't Hibernate

BIG IDEA: COMMUNITY

Learn about winter preparedness and survival while participating in fundamental community building concepts. Practice shelter building, fire building, and more while on a winter trek at Shelburne Farms!

Active in Winter/Tracking

BIG IDEA: PLACE

Investigate your schoolyard or community for signs of active animals in winter. Together, we will follow track patterns in search of stories in snow. Investigate the adaptations and survival techniques that allow animals to stay active in the winter. Develop track identification and observational skills while exploring prints, patterns, and places.



Spring

Sugaring Time

BIG IDEA: CYCLES

Investigate the science and wonder behind maple sugaring. Follow the process from tapping to tasting. Identify and tap a sugar maple, gather sap, and visit the sugar maker in the sugar house! Explore the water, tree life, and sugaring cycles throughout the day.

Spring Time on the Farm

BIG IDEA: CYCLES

PK-1st Investigate what is happening as the Farm awakens to spring's warmer days. See Tomie de Paula's *Charlie Needs a Cloak* come alive! Meet and interact with lambs and ewes while exploring the importance of wool. Together we will wash, dry, card, spin, and felt wool to follow the cycle of sheep to mitten. Participate in animal chores and make observations of the flock!

2-3rd Explore a Vermont dairy farm! Visit our milking parlor, calving barn, feed alley, and manure pit to understand the process and life cycle of cows! Milk a cow and determine which products come from cows. Transform cream into butter and learn about the cheese making process.

Pond Life Cycles & Adaptations

in partnership with Winooski Valley Park District

BIG IDEA: CYCLES

Explore the pond and forest ecosystem! Students will experience spring at the pond and in the forest by investigating insect and amphibian life cycles. Discover how creatures adapt to eating, moving, and surviving in their watery and forest worlds!

Sugaring by Numbers

BIG IDEA: SYSTEMS

Bring math and science concepts to life while exploring the systems behind sugaring. Identify and measure trees to tap, calculate sap output, observe states of matter, investigate impacts of weather and climate change, and experience sugaring with our educators and sugar makers.

Wetland Investigation

BIG IDEA: SYSTEMS

in partnership with UVM Watershed Alliance

Follow the nutrient cycle in built and natural systems to discover the functions and characteristics of wetlands. Visit our dairy to consider how nutrients are imported and exported while evaluating the integral role wetlands play in maintaining a healthy ecosystem in a time of changing climate. *This trip can be adapted to include a service learning component through Winooski Valley Park District.*



Spring Investigations

BIG IDEA: ADAPTATION

Allow inquiry to guide your spring exploration around the natural areas in your community. Students will have examine animal adaptations and search for spring ephemerals as we find signs of spring and cycles all around! *This trip can be adapted to include a service learning component through Winooski Valley Park District.*

*Outreach programs can be adapted for a two- or four-hour experience with a classroom of any grade. For each program, we travel to your schoolyard or community to explore the big ideas of education for sustainability. If you are interested in hosting Shelburne Farms educators for a program that you do not see listed, please contact Christie Nold, School Programs Coordinator, to consider possibilities.





Education for Sustainability Offerings for Teachers



Education is at the heart of what we do at Shelburne Farms: education that links knowledge, inquiry and action to empower students to build healthy communities and a healthier planet. It's called "education for sustainability" (EFS) and it helps teachers connect subject areas, grade levels, community issues and school operations.

SUMMER 2015

Whether you're new to the field or a seasoned practitioner in educating for sustainability, these programs will help you meet your professional goals and inspire you to head back to the classroom.

Project Seasons for Young Learners: Cultivating Joy and Wonder ■ JULY 13-16

Education for Sustainability Immersion ■ JULY 16-17

We heard from you and this year we're offering a new program to further your work in EFS. Join us for this residential retreat program!

The Summer Institute on Education for Sustainability
JULY 27-31

YEAR-LONG

VT-FEED: Vermont Food Education Every Day

This collaborative program of Shelburne Farms and NOFA-VT offers professional learning in food systems education and cultivates links between classrooms, cafeterias and communities. vtfeed.org

A Forest for Every Classroom (FFEC) & A Watershed for Every Classroom (WEC)

Exciting place-based education programs focused on public lands and the Lake Champlain Basin. **New WEC program starts spring 2016.** Visit our website for program dates and to learn more about these partnership programs, or contact Jen Cirillo (see below).



"I met inspirational educators and took away great ideas for my teaching. I would come back because I have so much more to learn."

— LAURA MAILANDER

"A true learning community."

— PATRICIA LOCKHART, STATEN ISLAND, NY

RESOURCES



Education for Sustainability Guide

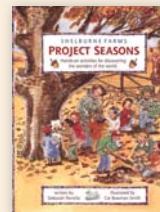
This revised guide from Shelburne Farms' Sustainable Schools Project shares the latest strategies in education for sustainability. Also try the **Education for Sustainability Starter Kit**, a series of self-guided learning opportunities for schools.



Healthy Neighborhoods Healthy Kids Guide

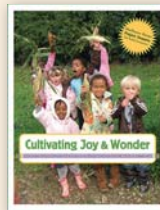
Designed to help educators engage youth in creating livable and sustainable communities. It includes lesson plans, tools, planning guides, and resources.

Free downloads! sustainableschoolsproject.org



Project Seasons

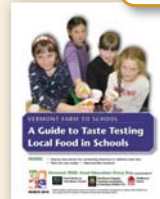
An award-winning, easy-to-use collection of over 147 seasonal, interdisciplinary activities and teaching ideas using low- or no-cost materials. Developed by teachers, each lesson has learning objectives, grade ranges, etc.



Cultivating Joy & Wonder

Bring education for sustainability into your early childhood classroom through engaging activities, essays, and resources that encourage children to explore and engage in the world around them.

Free download: shelburnefarms.org



Vermont FEED Toolkit Food Education Every Day

FIVE comprehensive guides to make Farm to School happen for you and your students.

Free downloads! vtfeed.org



New School Cuisine

Nutritious and seasonal recipes for and by school cooks

Order any hard copy item: www.shelburnefarms.org

TO REGISTER for a professional learning opportunity: www.shelburnefarms.org

For more information: **Jen Cirillo: jcirillo@shelburnefarms.org, 985-8686**



Children's Farmyard VISITS

Information: Cat Wright: cwright@shelburnefarms.org, 802-985-0344

FEE: \$4/student (1 adult free with every 5 students, \$6/additional adult)



Autumn or Spring at the Farmyard

Let your Pre-K to 2nd grade students discover the important role that farms play in their lives. In these self-guided visits, 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 AM. You may participate in any or all of them. You may also explore the hiking trails, bakery, woodshop area, and cheesemaking near the farmyard. Groups typically visit for 1-2 hours, but are welcome to spend more time in educational exploration. Kick off your school year with a fall visit, and enjoy more personal attention from our Farmyard educators at this quieter time of year, or join us in spring to greet the new arrivals, from chicks to lambs to calves.

To bring your program or camp group in July or August, or to bring an older or younger group, contact Cat Wright (see above).

Application for All Programs

NEW!
Apply on-line!
shelburnefarms.org

School _____ Grade(s) _____ Total # of students _____

School Address _____
street/city/state/zip

Transport:
 Bus Cars

Teacher 1

Teacher 2

Name _____

Name _____

Email _____

Email _____

Phone (H) _____ (W) _____

Phone (H) _____ (W) _____

Home[†] Address _____

Home[†] Address _____

city/state/zip

city/state/zip

[†]We mail to your home address to reduce the volume of mail at school mailrooms and increase likelihood of delivery. We do not sell or trade our mailing lists.

SCHOOL PROGRAMS

1. Check with colleagues on program(s) they may have attended previously to avoid repetition.
2. Please list a 1st and 2nd choice in case we are unable to schedule your 1st choice.
3. ONE program per class. Two teachers applying together should send in ONE application.

	At the Farm Grades K-3	At the Farm Grades 4-8	Your Community Any Grade
FALL	___ Farm to You ___ Super Soil ___ Forest Ecology ___ Farm Life & History	___ Science of Farming ___ Art in Nature ___ Stories in Stone	___ Forest Ecology ___ Super Soil
WINTER	___ Active in Winter	___ Tracking ___ Hike, Don't Hibernate	___ Active in Winter/ Tracking
SPRING	___ Sugaring Time ___ Spring Time on Farm ___ Pond Life Cycles & Adaptations	___ Sugaring by Numbers ___ Wetland Investigation	___ Spring Investigations

CHILDREN'S FARMYARD VISITS

Please list your 1st and 2nd choices for **month** and **time** of visit. Your options are:

FALL		SPRING	
September 2016		May 2017	
October 2016		June 2017	
MORNING	AFTERNOON	AFTER SCHOOL	
9:30 AM	11:00 AM	12:30 PM	3:00 PM
10:00 AM	11:30 PM	1:00 PM	3:30 PM
10:30 AM	12:00 PM	1:30 PM	
1ST CHOICE		_____	_____
		month	time
2ND CHOICE		_____	_____
		month	time

Apply online for Professional Development

Deadline May 20, 2015 • FAX: 802-985-8123 • APPLY ONLINE! www.shelburnefarms.org

Nonprofit
Organization
US postage
PAID
Permit No. 399
Burlington, VT

Shelburne Farms
1611 Harbor Road
Shelburne, Vermont 05482
www.shelburnefarms.org



Shelburne Farms is a nonprofit organization educating for a sustainable future. Our campus is a 1,400-acre working farm, forest, and National Historic Landmark.

PHOTOGRAPHY: Holly Brough, Vera Chang, Amanda Herzberger, Marshall Webb and Shelburne Farms staff.

This paper contains 100% post-consumer recycled fiber, is process-chlorine free, produced with renewable, biogas energy, and is FSC certified.

Printed with vegetable-based inks.



Shelburne Farms School Programs



NEW!
Apply on-line!

2015
2016

- Learning Opportunities for Teachers
- School & Outreach Programs for Grades K-8
- Children's Farmyard Visits