



**Fernbrook Farms Environmental Education Center
2019 Winter Upper Level Homeschool Semester**



Inquiry and Engineering on the Farm

Ages 12-14 Years Old (students must be 12 years old by the start of classes)

Class Sessions: Tuesdays 9:30am-11:30am, Thursdays 9:30am-11:30am, OR
Thursdays 1:30pm-3:30pm

Inquiry and Engineering on the Farm is going to be an exciting hands-on program for the Winter Semester this year. Throughout the semester the students will be designing their own experiments and building various devices with nature in mind. Classes are subject to change based on environmental factors. Students should always dress for the weather. We will be mostly indoors, but with limited heat.

Ms. Patty Gurgul

Meal Worm Experiment

January 15th or 17th

During this first week of the semester the students will be setting up experiments and learning to control variables. The students will also be responsible for setting up an experiment that they will be observing for the remaining 7 weeks of the semester.

Build a Bird's Nest

January 22nd or 24th

The students will spend the first part of class examining different types of bird nests. The students will then design and build a nest using materials they will "purchase" from "Miss Patty's Nest Store". The group will be testing their completed nests to see which is the strongest.



Wiggling Worms

January 29th or 31st

This class will focus on red wiggler compost worms. During this class the students will work to design individual experiments to investigate worm preferences.

Biomimicry I

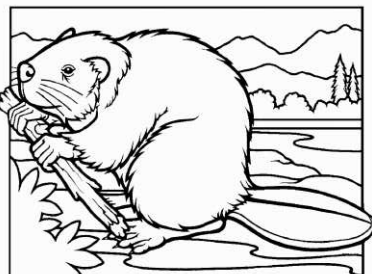
February 5th or 7th

Students will first have an introduction to biomimicry. They will then have to design and create a seed dispersal method that mimics a method found in nature.

Crash Car Eggs

February 12th or 14th

During this class each student will receive an "egg person", and their mission will be to create a safety device that will keep their "egg person" safe during a simulated car crash test.



Beaver Dams

February 19th or 21st

A beaver's ability to shape their environment is beyond impressive. During this class the students will be searching for the trees the beavers have cut down and also search for their dam. After examining the intricate formation of the beaver dam the students will construct their own mini dams and test its strength

Biomimicry II

February 26th or 28th

The students will draw inspiration from nature in order to design and create a "grabbing tool". The students will then test their creations at the end of class to see how they work.

How Smart is a Chicken?

March 5th or 7th

In the final class, the students will be designing an experiment involving a chicken (or two). As a class we will test the chickens to see if they can run races, complete a maze, or find hidden food. The possibilities that the students may come up with are endless.



**Fernbrook Farms Environmental Education Center
2019 Winter Upper Level Homeschool Semester**



Inquiry and Engineering on the Farm

Ages 12-14 Years Old (students must be 12 years old by the start of classes)

Name of Child		Age	Date of Birth	Male	Female
Address		City		State	
Zip Code		Current Grade Level			
Parent's Name		Parent's Name			
Home Phone#	Work#	Home Phone#	Work#		
Email		Email			
Cell#		Cell#			
Employer		Employer			
Emergency Contact (Name, Phone #, Relationship)					

**Class Time & Day : Tuesdays 9:30am-11:30am, Thursdays 9:30am-11:30am or
Thursdays 1:30pm-3:30pm**

8-week Semester runs: January 15th/17th to March 5th/7th

Confidential Medical Information & Required Emergency Information

- ☐ Please indicate information about the registrant(s) **regarding medications, allergies, physical disabilities or restrictions that the instructors should know about.** Attach pages if necessary.

In case of an emergency, I give my permission to have _____ (child/children) receive first aid and be transported to the nearest hospital by professional, emergency personnel. I understand I will be financially responsible for the cost of such treatment. ☐ YES ☐ NO

Parent/Guardian _____ Date signed _____

I give Fernbrook Farms Environmental Education Center permission to use any photographs or video footage of my child(ren) for any promotional or other legitimate reason. ☐ YES ☐ NO

Parent/Guardian _____ Date signed _____

***Registration Fee - \$139.00 for entire semester** *Discounts available: sibling, CSA member, and multi-session registration*

- **MAKE CHECKS PAYABLE TO:**
Fernbrook Farms Environmental Education Center (FEEEC)

MAIL REGISTRATION TO:
FEEEC-ULHS

P.O. BOX 228
Bordentown, NJ 08505

- **REGISTER ONLINE:**
On our website at www.FernbrookFarms.com