



**Fernbrook Farms Environmental Education Center**  
**2018 Winter Lower Level Homeschool Semester**  
**Ages 6-11 years old (child must be 6 by the first class)**



**Class Sessions Offered:** Tuesdays 9:30am-11:30am, Thursdays 9:30am-11:30am or  
Thursdays 1:30pm-3:30pm

**Insect Hibernation**

**January 15<sup>th</sup> or 17<sup>th</sup>**

How do insects survive the cold winter months? During this class we will investigate how insects hibernate without the benefit of body fat, like bears and ground hogs. We will learn how insects survive freezing temperatures and keep internal fluids from turning to ice.

**Your Ecological Footprint**

**January 22<sup>nd</sup> or 24<sup>th</sup>**

Ever wondered how much “nature” your lifestyle requires? We’re going to find out! In this lesson the class will conduct many different types of experiments to determine our Ecological Footprint. With these results we will explore the ways that we can reduce our footprint in order to reduce the impact we have on Mother Earth, and most importantly learn why it is important to know about our *Ecological Footprint*.

**A World of Worms**

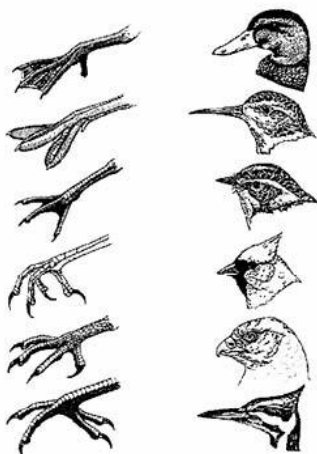
**January 29<sup>th</sup> or 31<sup>st</sup>**

The world of “Nature’s Plowman” can be quite interesting. During this class we will take an up close look at earthworms, examining their every move and reaction to human contact. In the Fernbrook laboratory our young scientists will gather the evidence and results to better understand the life of a worm.

**Bird Beaks and Feet**

**Mutualism & Parasitism in NJ**

**February 5<sup>th</sup> or 7<sup>th</sup>**



Every animal gets energy from another living thing. However, some organisms get that energy from an organism that is still trying to thrive. Sometimes this is a healthy relationship, and sometimes it isn't. In this lesson we'll explore many of the cases of parasitism and mutualism that exist on the farm. We'll look carefully at the benefits and drawbacks that these relationships have on the ecosystem and the organism.

**Adaptations of our Feathered Friends**

**February 12<sup>th</sup> or 14<sup>th</sup>**

Birds have a variety of adaptations including characteristics of their beaks, feet, legs, wings, and coloration. These adaptations have evolved so that our feathered friends are better prepared to survive in their particular environment and lifestyle. Throughout this class we will explore these different adaptations by participating in activities that make us think and act with a bird state of mind.

**Maple Sugaring**

**February 19<sup>th</sup> or 21<sup>st</sup>**

What comes from a tree and tastes great on pancakes? During this class we'll learn all about the process of maple sugaring from tips to identifying maple trees to the process of tapping and boiling the sap down to syrup. If the temperature is just right we will hopefully have some luck tasting Fernbrook Maple Syrup.

**Rocks & Minerals**

**February 26<sup>th</sup> or 28<sup>th</sup>**

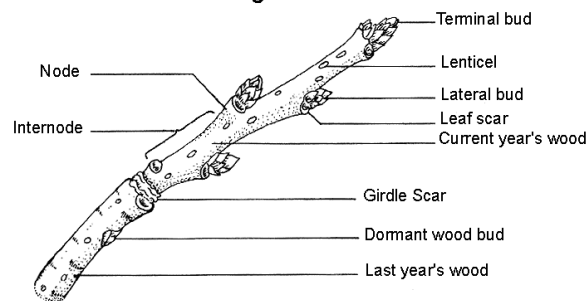
This introductory geology class will have us all over the farm examining local rocks and minerals. During this lesson we'll be taking a look at the shape of New Jersey, how it was shaped and the rock and minerals you'll find here. As a young geologist you will discover whether our findings are igneous, metamorphic, or sedimentary.

**Buds & Flowers**

**March 5<sup>th</sup> or 7<sup>th</sup>**

Winter can appear to be a dull and uninteresting time for nature watchers. At Fernbrook we can always explore the teachable moments that winter brings, such as discovering the spring's leaves and flowers that are already in place just waiting for the right weather to burst out from the bud! The class will explore the buds and start of spring's flowers by investigating the various types of tree bud patterns through hand lenses and microscopes.

**Parts of a Winter Twig**





**Fernbrook Farms Environmental Education Center**  
**2018 Winter Lower Level Homeschool Semester**  
**Ages 6-11 years old (child must be 6 by the first class)**



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 Times & Days (please circle class you want your child to attend) :**

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

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

**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 - \$112.00 for entire semester** \*Discounts available: sibling, CSA member, and multi-session registration\*

- **MAKE CHECKS PAYABLE TO:**  
Fernbrook Farms Environmental Education Center (FEEEC)
- **REGISTER ONLINE:**  
On our website at [www.FernbrookFarms.com](http://www.FernbrookFarms.com)

**MAIL REGISTRATION TO:**  
Fernbrook Farms Environmental Education Center  
Lower Level Homeschool  
P.O. BOX 228  
Bordentown, NJ 08505