

Teaching **SUSTAINABLE** natural resource **USE & MANAGEMENT**



THE SCIENCE OF NATURE

Trees For Tomorrow, an accredited environmental education center located in Eagle River, Wisconsin, has been educating people for over 75 years about natural resources and their continued importance to our survival. We invite your students to learn through exploration and the science of nature on our campus for a multi-day, overnight, or day experience, or in your neck of the woods virtually or in-person! Our professional teaching staff are experts at using field studies and hands-on activities to awaken student awareness of the land's capabilities and limitations, and to inspire student enthusiasm for sustainable forest stewardship.

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OUR MISSION: Trees For Tomorrow promotes sustainable management of our natural resources through transformative educational experiences.



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For over 75 years, the TFT experience has transformed the lives of students of all ages by immersing them in the heart of the forest and developing a natural connection to the world around them.

ABOUT US

Trees For Tomorrow (TFT) was founded as a nonprofit organization in 1944 by a group of Wisconsin paper and electric utility companies with the purpose of reforesting northern Wisconsin and to educate the public about proper land management. In our early days, TFT gave away tree seedlings, lent out planting machines, and hired foresters to develop land management plans. TFT also established an education facility at a former Civilian Conservation Corps training facility in Eagle River, Wisconsin and used the recovering Northwoods to teach about the need for proper forestry practices. After the success of reforestation efforts in the region, TFT turned all of its energy towards education in 1967



The M.N. "Mully" Taylor Education Hall houses three classrooms, restrooms, conference room, TFT's main office, and our campus gift shop. Additional classroom space is available in Juday Hall.



TFT's historic dining hall is equipped with a large, modern kitchen and a professional food service staff that prepares home-cooked meals and is able to accommodate any special food needs.



Each of the four dormitories can house between 26-48 people and has a central lounge with a wood-burning fireplace and central bathrooms with showers.



TFT is accredited by Cognia (formerly AdvancED). Our interdisciplinary, inquiry-based field experiences are designed to compliment your K-12 school curriculum, with many lessons aligning to Next Generation Science Standards as well as Academic and Career Planning guidelines.

FIELD EXPERIENCES

Visiting schools stay at TFT's campus for one-day, overnight, or multi-night field experiences. Students stay in furnished dormitories, eat meals in our dining hall, and prep for field studies in the Education Hall.

Throughout the program, students participate in field studies in Northwoods forests and waterways focusing on topics such as forestry, wildlife, water quality, geology, and natural resource use. These activities demonstrate how natural resources can be sustained through proper management.



SCHOOL OUTREACH

Our professional teaching staff welcome the opportunity to visit your classroom and explore area woodlands and waterways with your students and/or introduce them to our Animal Ambassadors.

VIRTUAL LEARNING

Students learn from and interact with our professional educators in a LIVE virtual format via Zoom or Google Meet. Programs can be facilitated in full by TFT staff or they can lead portions of the class such as introductions and wrap-up, while you guide students through the process or data collection and group discussions.

FIELD EXPERIENCES

ELEMENTARY

Teachers may choose lessons from no more than one theme per day; when choosing multiple themes, choose at least one lesson that connects both themes. Teachers may choose to round out their elementary school field experience by adding up to two optional lessons. Our Program Coordinator will work with you to develop the schedule that is best for you!

Themes: 🌲 = Forest 💡 = Land & People 💧 = Water 🐾 = Wildlife ❄️ = Winter

Theme	Class	NGSS	Time	Season	Notes
🌲💡💧🐾❄️	Challenge Activities	---	45 min. +	🌸☀️🍁❄️	
💡	Conscious Consumers	5-ESS3-1	1.5 hrs.	🌸☀️🍁❄️	Indoor only
💧🐾	Hands-On Herpetology*	4-LS1-1	1.5 hrs.	🌸☀️🍁❄️	
💧🐾	Fish Adaptations	4-LS1-1	1.5 hrs.	🌸☀️🍁❄️	Indoor only
🌲🐾	A Forest's Purpose	3-LS4-3, 5-ESS3-1	1.5 hrs.	🌸☀️🍁❄️	
❄️	Know Your Snow	3-ESS2-1	1.5 hrs.	❄️	
💧🐾	Lake Food Webs	3-LS4-4, 5-LS2-1	1.5 hrs.	🌸☀️🍁	
🌲💡	Life of Paper*	3-5-ETS1-1	1.5 hrs.	🌸☀️🍁❄️	Indoor only
🌲💡	Lumberjack Lore	3-ESS3-1, 5-ESS3-1	1.5 hrs.	🌸☀️🍁❄️	
💧	Magnificent Macroinvertebrates	3-LS4-4	1.5 hrs.	🌸☀️🍁	
🌲	Meet the Trees	3-LS3-1	1.5 hrs.	🌸☀️🍁❄️	
🌲🐾	Northwoods Night Life	4-LS1-2	1.5 hrs.	🌸🍁	
🐾	Predators and Prey	3-LS4-4, 5-LS2-1	1.5 hrs.	🌸☀️🍁❄️	
🐾	Relating to Raptors*	4-LS1-1	1.5 hrs.	🌸☀️🍁❄️	Indoor only
🐾❄️	Snow and Tell	3-LS2-1, 5-LS2-1	1.5 hrs.	❄️	
💡❄️	Survival 101	3-5-ETS1-1, 3-5-ETS1-2	1.5 hrs.	🌸☀️🍁❄️	
💧	Wetlands	5-ESS2-1	3 hrs.	🌸☀️🍁	
🐾	What Makes a Mammal?	3-LS4-3, 4-LS1-1	1.5 hrs.	🌸☀️🍁❄️	Indoor only
🌲	What's in a Tree?	3-LS3-2, 5-LS1-1	1.5 hrs.	🌸☀️🍁❄️	
🌲🐾❄️	Winter Adaptations	3-LS2-1, 4-LS1-1, 3-5-ETS1-2	1.5 hrs.	❄️	Indoor only
🌲💡💧🐾❄️	Culminating Activity	---	45 min.	🌸☀️🍁❄️	Indoor only
Optional	Archery*	---	1.5 hrs.	🌸☀️🍁	
Optional	Animal Tracks*	--	1 hr.	🌸☀️🍁❄️	≤30 participants
Optional	Bats: Invaders of the Darkness	---	1 hr.	🌸☀️🍁❄️	Indoor only
Optional	Canoe Lessons*	---	1.5 hrs.	🌸☀️🍁	≤30 participants
Optional	Canoe Tour*	---	2-3 hrs.	🌸☀️🍁	≤30 participants
Optional	Cross-Country Ski Lessons*	---	1.5 hrs.	❄️	
Optional	Cross-Country Ski Tour*	---	3 hrs.	❄️	
Optional	Dress a Beaver	---	1 hr.	🌸☀️🍁❄️	Indoor only
Optional	Introduction to GPS	---	1.5-3 hrs.	🌸☀️🍁❄️	
Optional	Orienteering	---	1-3 hrs.	🌸☀️🍁❄️	
Optional	Wolves	---	1 hr.	🌸☀️🍁❄️	Indoor only

*Extra material fees apply. See page 14 for details.

FIELD EXPERIENCES

ELEMENTARY

Core Lessons:

Challenge Activities

Students work cooperatively through a series of physical and mental challenges designed to increase confidence and self-esteem and to encourage teamwork. In spring, summer, and fall, an outdoor challenge course is available. This lesson will start off your elementary field experience to prepare your students for group work that will be done throughout their experience.

**Conscious Consumers**

Students will explore how the product choices we make affect our environment. They will assess a product's life cycle from creation to the end of its use. They will then determine ways to improve on the product's design in order to minimize its environmental impact.

Hands-On Herpetology

Students explore adaptations of reptiles and amphibians through hands-on stations, including an up-close experience with our resident snakes and/or turtle!

**Fish Adaptations**

Students visit hands-on stations to learn about physical adaptations of northern Wisconsin fish species and how those adaptations may help them survive in their habitats. Students will create a fish and its suitable habitat, then compare and contrast their fish to other species and learn how invasive species may affect their fish.

A Forest's Purpose

Students simulate predator and prey relationships while comparing habitat types. Following this activity, students will be challenged to consider how to manage a forest to support wildlife.

Know Your Snow

Students will learn how snow forms, explore different kinds of snow, and discuss how snow can become a glacier. They will then go outside and investigate what the snow looks like at Trees For Tomorrow.

Lake Food Webs

Prerequisite: Magnificent Macroinvertebrates. In this hands-on lesson, students will collect data to determine what microscopic organisms are living in a lake ecosystem. They will then make a model of a food web based on their data and describe how populations would change with environmental conditions.

Life of Paper

Students will learn about Wisconsin paper mills, then model the actual papermaking process. Students will make their own paper by hand to take home and discuss the pros and cons of using recycled paper by testing the qualities of paper from different sources.

Lumberjack Lore

Students will explore Wisconsin's logging history through active role playing and hands-on activities. Students then compare historical practices to modern logging practices and discuss sustainable forest management.

**Magnificent Macroinvertebrates**

Students will learn to identify macroinvertebrates that live in a nearby lake. They will take samples and discover the great diversity in our water. From that data, they will assess the health of the lake. Pair with Lake Food Webs for a full experience!

Meet the Trees

Students will learn how to use a dichotomous key to identify common Northwoods trees and apply that skill on an outdoor tree identification course. They will then group trees into families based on their similarities and differences.

FIELD EXPERIENCES

ELEMENTARY

Core Lessons (continued):

Northwoods Night Life

Students will hike in the woods after dark. Along the hike, they will engage in sensory activities to explore the adaptations of nocturnal wildlife and discuss how those adaptations compare to diurnal animals such as humans.

Predators and Prey

Students will learn about characteristics of predators and prey in Wisconsin, then play a predator/prey simulation game to see how the population of one affects the other. Students will graph the results of their simulation and compare the results to a real-life predator/prey research study.



Relating to Raptors

Students will explore raptor adaptations and make comparisons between raptors and other animals to determine the characteristics that are unique to raptors and their lifestyles. The class will culminate with an introduction to TFT's live raptor!

Snow and Tell

In this lesson, students learn and practice observation skills through the identification of animal signs using materials such as animal track and scat guides and trail camera data. They will then create a storyboard using their data to share a day in the life of the animal they observed.



Survival 101

In this hands-on lesson, students will discuss what humans need to survive, the most important factors in a survival situation, and how to be prepared before going out into the wild. They will model these skills indoors, then go outside to build fires or shelters.

Wetlands

Students will travel off-site to explore a bog and a marsh. By using observations skills and identification guides, students will describe characteristics that define a wetland, and characteristics that separate a bog from a marsh. As a wrap up, students will discuss the importance of wetlands.



What Makes a Mammal?

Students will learn about mammal adaptations and morphology by exploring different mammals through animal artifacts such as skulls, feet, and pelts. Students will use what they learn to create a mammal with the adaptations to survive certain environmental challenges.



What's in a Tree?

Prerequisite: Meet the Trees. In this lesson, students will become foresters and learn how to take different tree measurements. They will use this knowledge to determine what could be built out of one tree. Students will conclude by exploring sustainable use of our natural resources.

Winter Adaptations

Through a Jeopardy-style game, students learn about the adaptations of Wisconsin plants and animals that allow them to survive the frozen winter. Students then use their creativity to design a plant or animal that would have the adaptations to survive winter.

Culminating Activity

As a final activity, students will reflect on prior lessons and connect concepts learned throughout their experience at Trees For Tomorrow. They will then apply those concepts to their lives back home.

FIELD EXPERIENCES

ELEMENTARY

Optional Lessons:

Archery

Students will learn how to safely load a bow and shoot an arrow. Everyone will get to practice shooting at a target.

**Animal Tracks**

Students explore real-life animal tracks and other animal signs. Then, students use Plaster of Paris with rubber molds to create an animal track in this make-and-take program.

Bats: Invaders of the Darkness

This slide program focuses on these interesting and misunderstood flying mammals. Topics covered include various species of bats, their life history, and their special adaptations for hunting on the wing.

Canoe Lessons

Students learn about equipment, safety procedures, and basic strokes necessary to become comfortable with paddling a canoe, then practice their skills on a lake.

**Canoe Tour**

After completing canoe lessons, groups can get out and paddle on a variety of nearby lakes. Students will continue developing skills while enjoying the beautiful Northwoods!

Cross-Country Ski Lessons

Students will learn classical cross-country ski techniques. Ski skills include proper flatland, hill, turning, and touring techniques to safely enjoy this exciting sport.

Cross-Country Ski Tour

Students will glide along a variety of snowy Northwoods trails, building upon previously learned ski skills and developing confidence with their skills. Tours focus on the natural history of our forests, wildlife, and snow.

**Dress A Beaver**

This fun and engaging program introduces students to beaver adaptations, ecology, and life history. Watch as one of your students transforms into a beaver before your eyes!

Introduction to GPS

Students will be introduced to GPS technology. Classroom and field portions teach students how to use GPS, read a map, and record scientific data.

**Orienteering**

Students combine classroom instruction with an orienteering field course designed to teach the basics of map and compass use. Classroom work introduces how to use a compass and read a map. Students then use these skills to complete an orienteering field course while investigating the forest.

**Wolves**

This slide show helps students separate fact from fairy tale as they learn about wolf life, ecology, communication, and management techniques. A demonstration of a wolf howl survey is also available.



FIELD EXPERIENCES

MIDDLE SCHOOL

Trees For Tomorrow offers inquiry-based lessons for grades 6-8 which are aligned with Next Generation Science Standards (NGSS). Teachers choose lessons from one of two thematic strands, which are designed to build upon one another. The final lesson of each unit will pull all of the students' new knowledge and skills together in a culminating activity. Teachers may choose to round out their middle school field experience by adding up to two optional lessons. Our Program Coordinator will work with you to develop the schedule that is best for you!

Strand	Class	MS NGSS	Time	Season	Notes
Forest Sys.	<i>Introduction to Field-Based Science Skills</i>	LS2-1, LS2-2	3 hrs.		
Forest Sys.	<i>Ecological Succession</i>	LS2-1, LS2-2, LS2-4	3 hrs.		
Forest Sys.	<i>Animal Adaptations</i>	LS1-4, LS2-2	3 hrs.		
Forest Sys.	<i>Thermal Adaptations</i>	PS3-3	1.5 hrs.		
Forest Sys.	<i>Nature's Design</i>	LS4-2, ETS1-1	1.5 hrs.		Indoor only
Forest Sys.	<i>Taking the Right Step</i>	ETS1-2	1.5 hrs.		
Forest Sys.	<i>Land Use (Culminating Activity)</i>	LS2-4, LS2-5	2 hrs.		
Water Sys.	<i>Introduction to Water Science Skills</i>	LS2-1	3 hrs.		
Water Sys.	<i>Lake Ecology (with canoes*)</i>	LS2-1, LS2-2, LS2-4	3 hrs.		
Water Sys.	<i>Bog Investigations</i>	LS2-1, LS2-4	3 hrs.		
Water Sys.	<i>Understanding Groundwater</i>	ESS2-4, ESS3-4	1.5 hrs.		Indoor only
Water Sys.	<i>Fish Adaptations and Habitats</i>	LS2-1, LS2-4	1.5 hrs.		Indoor only
Water Sys.	<i>Water Use (Culminating Activity)</i>	LS2-4, LS2-5	2 hrs.		
Optional	<i>Archery*</i>	---	1.5 hrs.		
Optional	<i>Birds of Prey*</i>	---	1.5 hrs.		Indoor only
Optional	<i>Bog Ecology</i>	---	1.5-2 hrs.		
Optional	<i>Canoe Lessons*</i>	---	1.5 hrs.		≤30 participants
Optional	<i>Canoe Tour*</i>	---	2-3 hrs.		≤30 participants
Optional	<i>Challenge Activities</i>	---	45 min. +		
Optional	<i>Critter Catching</i>	---	1.5 hrs.		
Optional	<i>Cross-Country Ski Lessons*</i>	---	1.5 hrs.		
Optional	<i>Cross-Country Ski Tour*</i>	---	3 hrs.		
Optional	<i>Exploring Energy</i>	---	1.5 hrs.		Indoor only
Optional	<i>Human Survival Skills</i>	---	1-2 hrs.		
Optional	<i>Introduction to GPS</i>	---	1.5-3 hrs.		
Optional	<i>Logging Days</i>	---	1-1.5 hrs.		
Optional	<i>Night Hike</i>	---	1.5 hrs.		
Optional	<i>Orienteering</i>	---	1-3 hrs.		
Optional	<i>Reptiles and Amphibians*</i>	---	1 hr.		Indoor only
Optional	<i>Skulls, Skins, and Bones</i>	---	1.5 hrs.		Indoor only
Optional	<i>Stories in the Snow</i>	---	1 hr.		Indoor only
Optional	<i>Tree Identification</i>	---	1.5 hrs.		
Optional	<i>Wolves</i>	---	1 hr.		Indoor only

*Extra material fees apply. See page 14 for details.

FIELD EXPERIENCES

MIDDLE SCHOOL

Forest Systems Strand:

Introduction to Field-Based Science Skills

Students will develop observation and data collection skills by practicing journaling techniques and using a variety of tools to study trees and wildlife. This lesson is an introduction to skills that will be used throughout the forest systems strand.



Ecological Succession

After a brief introduction on forest succession and changes, students will journey to a field site to gather data on a forest following a past disturbance. Students will use their data to support a theory on patterns of change in the forest following the disturbance, explain the phenomenon of ecological succession, and create predictions about how the site will change in the future.



Animal Adaptations

In the classroom, students will make observations on the adaptations of a “mystery” animal and will infer how those might help the animal survive. Students will then explore new field sites to determine whether their animal is adapted to live in a variety of habitats. Students will use trends in the data to explore themes such as specialist vs. generalist animals, and wildlife management.

Thermal Adaptations

Students explore different factors that affect body temperature in cold climates. They will conduct a simple experiment to determine how different materials can affect heat loss. Students will use their data to create a graph and analyze their findings.

Nature's Design

In this evening experience, students explore engineering applications of scientific knowledge. Students will research specific adaptations of organisms and apply these adaptations to a design, which they will then share with the class.

Taking the Right Step

Students will determine surface area and weight displacement of animal feet to see how they are adapted to life in cold climates. They will design and test their own device, then compare devices and make inferences as to why some were more successful than others.



Land Use

In this culminating lesson, students use the knowledge and skills gained in previous lessons to decide how to best manage a piece of land at a new field site. They collect and analyze data to help make their decision. Students then present their management plan to the class using data they collected to support their choice.

Water Systems Strand:

Introduction to Water Science Skills

Students build data gathering skills by collecting data at a nearby aquatic ecosystem. After collecting a variety of biotic and abiotic data from the water resource, students learn about the meaning of a variety of measurements including pH, Dissolved Oxygen, turbidity, and biotic indices. Students use the data they collect to support an argument that the quality of water is healthy enough to support life.



Lake Ecology

Students will travel to a nearby lake and collect data to determine the trophic state (or relative age) of the lake. Using data, they collect such as: clarity, phosphate concentration, and bottom composition, students will classify the lake as either oligotrophic, mesotrophic, or eutrophic. This class can be done with or without canoes (if using canoes, canoe lessons is a prerequisite).



FIELD EXPERIENCES

MIDDLE SCHOOL

Water Systems Strand, Continued:

Bog Investigations

In this field experience, students will visit a bog and collect data about water quality, plants, and animals. Students will analyze data to compare a bog to other aquatic ecosystems visited.



Understanding Groundwater

In this evening experience, students will engage in a series of activities to explore the actions and function of groundwater. They will explore how water travels through substrates, use relief maps to chart nearby watersheds, and determine human impacts on groundwater resources.



Fish Adaptations

In this evening experience, students will examine fish adaptations to understand the diversity of fish morphology and how it provides adaptive advantage for specific habitats. As a wrap-up activity, students will use what they've learned to design a "best fish" for a given habitat.

Water Use

In this culminating lesson, students use prior knowledge to collect data from a water ecosystem. Students use that data to construct an argument about the quality of water for a specific purpose. Students must also decide on and defend a shoreline restoration plan. Students will present their data and mitigation plan(s) to their peers.



Optional Lessons:

Archery

Students will learn how to safely load a bow and shoot an arrow. Everyone will get to practice shooting at a target.

Birds of Prey

This slide program introduces students to the birds of prey in Wisconsin. It includes general characteristics of raptors, the seven families found in Wisconsin, threats facing birds of prey, and conservation efforts. A live bird of prey is available for this program.



Bog Ecology

Open to groups not taking Water Systems Strand lessons. Mysteries of the bog are revealed through this slide program and follow-up field tour. It's a place filled with "black holes," scraggly trees, and bouncing mats of moss. Students get a chance to get into wetlands while quaking and shaking on the bog.

Canoe Lessons

Students learn about equipment, safety procedures, and basic strokes necessary to become comfortable with paddling a canoe, then practice their skills on a lake.

Canoe Tour

After completing canoe lessons, groups can get out and paddle on a variety of nearby lakes. Students will continue developing skills while enjoying the beautiful Northwoods!

Challenge Activities

Students work cooperatively through a series of physical and mental challenges designed to increase confidence and self-esteem and to encourage teamwork. In spring, summer, and fall, an outdoor challenge course is available.

Critter Catching

Open to groups not taking Water System Strand lessons. Students get hands-on as they sample nearby aquatic habitats for critters that live there. The types of organisms found help students diagnose the water quality.

FIELD EXPERIENCES

MIDDLE SCHOOL

Optional Lessons, Continued:

Cross-Country Ski Lessons

Students will learn classical cross-country ski techniques. Ski skills include proper flatland, hill, turning, and touring techniques to safely enjoy this exciting sport.



Cross-Country Ski Tour

Students will glide along a variety of snowy Northwoods trails, building upon previously learned ski skills and developing confidence with their skills. Tours focus on the natural history of our forests, wildlife, and snow.

Exploring Energy

Energy comes from a variety of sources, both renewable and nonrenewable. In this activity, students will see how much they know about energy usage and energy supplies as they test their knowledge in Energy Jeopardy. Then they will be able to ride the “energy cycle” to feel just

Human Survival Skills

In this hands-on activity, students will discuss what humans need to survive, what are the most important things to know in a survival situation, and what they should always have with them when they go out into the wild. They will then go outside and practice making shelters and/or fires.

Introduction to GPS

Students will be introduced to GPS technology. Classroom and field portions teach students how to use GPS, read a map, and record scientific data.

Logging Days

Watch out, Paul Bunyan! After a glimpse at early logging camp life, students swing into logging events such as cross-cut sawing, lighting a match with a small hatchet, and the tree cookie roll.

Night Hike

This reflective, sensory experience is designed to bring students in touch with nature at night. Students walk in the woods after dark without the use of flashlights to learn how human and animal senses work in the dark.

Orienteering

Students combine classroom instruction with an orienteering field course designed to teach the basics of map and compass use. Classroom work introduces how to use a compass and read a map. Students then use these skills to complete an orienteering field course while investigating the forest.

Reptiles and Amphibians

Who’s slimy and who’s not? Students take a close-up look at the differences between reptiles and amphibians and learn more about species found in Wisconsin. Participants will have an opportunity to observe TFT’s own reptiles up close!

Skulls, Skins, and Bones

Students will identify animals by their skulls, skins, and bones. We will be looking at the structure and function of different parts of animals and what they can tell us about that animal.

Stories in the Snow

If you know where to look, the mysteries and struggles of winter survival are all recorded on the winter snowscape. Through this slide program, students learn to recognize typical track patterns for Wisconsin mammals. In addition, they are introduced to other animal signs that help them to better read the landscape when they are outside in winter.

Tree Identification

Open to groups not taking Forest Systems Strand lessons. Students will discuss unique characteristics of trees and use a dichotomous key to identify native Wisconsin tree species. They then apply their knowledge in a tree identification course on TFT’s campus.



Wolves

This slide show helps students separate fact from fairy tale as they learn about wolf life, ecology, communication, and management techniques. A demonstration of a wolf howl survey is also available.

FIELD EXPERIENCES

HIGH SCHOOL

Trees For Tomorrow offers three units of inquiry-based lessons for grades 9-12. These lessons will introduce students to careers in natural resources, in conjunction with Wisconsin's Academic & Career Planning (ACP) guidelines. Teachers choose lessons from one strand, that are designed to build upon one another. The final lesson of each strand will apply the students' new knowledge and skills in a culminating activity. Teachers may choose to round out their high school field experience by adding up to two optional lessons. Our Program Coordinator will work with you to develop the schedule that is best for you!

Strand	Class	Time	Season	Notes
Forestry	<i>Tree ID/Intro to Forest Measurements</i>	3 hrs.		
Forestry	<i>Timber Harvest as a Management Tool</i>	3 hrs.		
Forestry	<i>Fire as a Management Tool</i>	1.5 hrs.		Indoor only
Forestry	<i>BMP's for Water Quality</i>	1.5 hrs.		
Forestry	<i>Invasive Species in Forestry</i>	3 hrs.		
Forestry	<i>Managing Woods for Wildlife</i>	3 hrs.		
Forestry	<i>Soil Assessment-</i>	1.5 hrs.		Indoor only
Forestry	<i>Create A Forest Management Plan (Culminating Act.)-</i>	3 hrs.		
Wildlife	<i>Radio Telemetry</i>	2-3 hrs.		
Wildlife	<i>Trail Cameras</i>	3 hrs.		
Wildlife	<i>Wildlife Capture Techniques</i>	3 hrs.		
Wildlife	<i>Wildlife Rehabilitation*</i>	1.5 hrs.		Indoor only
Wildlife	<i>Wildlife Signs Investigation</i>	1.5 hrs.		Indoor only
Wildlife	<i>Wildlife Transects</i>	3 hrs.		
Wildlife	<i>Research Proposals (Culminating Activity)</i>	2 hrs.		Indoor only
Energy/Climate	<i>Energy Basics</i>	3 hrs.		
Energy/Climate	<i>Energy Generation</i>	3 hrs.		
Energy/Climate	<i>Consumerism</i>	1.5 hrs.		Indoor only
Energy/Climate	<i>Carbon Footprint</i>	1.5 hrs.		Indoor only
Energy/Climate	<i>Climate Change Basics</i>	1.5 hrs.		
Energy/Climate	<i>Carbon Sequestration</i>	3 hrs.		
Energy/Climate	<i>Future Forests</i>	1.5 hrs.		Indoor only
Energy/Climate	<i>Green Home Design</i>	3 hrs.		Indoor only
Optional	<i>Archery*</i>	1.5 hrs.		
Optional	<i>Birds of Prey*</i>	1.5 hrs.		Indoor only
Optional	<i>Bog Ecology</i>	1.5-2 hrs.		
Optional	<i>Canoe Lessons*</i>	1.5 hrs.		≤30 participants
Optional	<i>Canoe Tour*</i>	2-3 hrs.		≤30 participants
Optional	<i>Challenge Activities</i>	45 min. +		
Optional	<i>Critter Catching</i>	1.5 hrs.		
Optional	<i>Cross-Country Ski Lessons*</i>	1.5 hrs.		
Optional	<i>Cross-Country Ski Tour*</i>	3 hrs.		
Optional	<i>Human Survival Skills</i>	1-2 hrs.		
Optional	<i>Introduction to GPS</i>	1.5-3 hrs.		
Optional	<i>Night Hike</i>	1.5 hrs.		
Optional	<i>Orienteering</i>	1-3 hrs.		
Optional	<i>Reptiles and Amphibians*</i>	1 hr.		Indoor only
Optional	<i>Wolves</i>	1 hour		Indoor only

*Extra material fees apply. See page 14 for details.

FIELD EXPERIENCES

HIGH SCHOOL

Forestry Strand:

Tree ID/Intro to Forest Measurements

In this introductory class, students discuss unique characteristics of trees and use a dichotomous key to identify native Wisconsin tree species. Students also learn to use forestry tools such as a DBH tape, Biltmore stick, and wedge prism to inventory a forest.

Timber Harvest as a Management Tool

Students visit a study site on the Star Lake Peninsula and take measurements such as tree ID, basal area, and DBH in two experimental study plots to directly observe one result of thinning as a management tool. As time allows, a hike around an interpretive nature trail and discussion of different forest types is also included.



Fire as a Management Tool

In this lecture-style class, students will learn the history of wildland fire policy on public lands, and how fire is managed current day. This program also discusses how prescribed burns are used as a tool to accomplish forest management goals, and career paths related to forests and fire management.

BMP's for Water

Students learn the role forests play in contributing to water quality and how logging practices can impact water resources. Students will survey and identify potential areas of concern at a field location and explore best management practices (BMPs) used by forestry professionals to protect water quality. Students will then design a timber sale at the field site by following these best management practices.

Invasive Species in Forestry

Students will learn what invasive species are and what impact they have on our northern forest ecosystem. Through a biodiversity study on TFT's campus, students learn firsthand how invasive species are impacting our campus forest.



Managing Woods for Wildlife

Students will gather data on different forest types in the field and use that data to guide a discussion on how different forest types are managed for different species.

Soil Assessment

Students will learn how to navigate through the USDA's Web Soil Survey to investigate the different soil types and properties found on TFT's campus. Students will then gather information on soil limitations and performance as it relates to timber harvest activities. This information will later be used when students plan a forest management in their final project.

Create A Forest Management Plan (Culminating Activity)

Students will create a Forest Management Plan for a portion of TFT's campus forest based on a given set of landowner goals and best management practices. Students will collect data in the field using knowledge, skills, and tools learned in previous TFT forestry classes to support their plan.

**Natural Resource
Careers Exploration Week**
June 12 - 17, 2022 · Open to grades 10-12

your future starts here

Application available online & due April 8, 2022

Designed for sophomores, juniors and graduating seniors who are interested in exploring a career in all aspects of natural resource management. Students are immersed in real-life field activities and development of outdoor skills while learning from industry professionals.

\$200/Student includes instruction, materials, 5 nights lodging and 15 meals.

FIELD EXPERIENCES

HIGH SCHOOL

Wildlife Strand:

Radio Telemetry

Students learn how radio telemetry is used in wildlife research, then use the equipment to practice the techniques of homing and triangulation. Students will apply this skill by using data to determine an animal's home range.



Trail Cameras

Students will learn how trail cameras are used in wildlife research. They will identify species in trail camera photos from a statewide citizen science project. They will then analyze trail camera data to answer questions about wildlife.

Wildlife Capture Techniques

Students will be introduced to the use of live capturing in wildlife research and its ethical considerations. Throughout their stay, students will check small mammal traps and record data about the animals. Students will analyze their data to discover population density and diversity.



Wildlife Rehabilitation

Students will explore the career of wildlife rehabilitation. Through hands-on exploration of various rehabilitation scenarios, students uncover the multiple challenges faced by wildlife rehabilitators. This lesson ends with an opportunity to meet TFT's rehabilitated

Wildlife Signs Investigation

(See description in Forestry Strand on page 12)

Wildlife Transects

(See description in Forestry Strand on page 12)

Research Proposals (Culminating Activity)

Using the knowledge and skills gained throughout their field experience, students work in teams to develop a hypothetical wildlife research proposal. Teams will consider appropriate data collection techniques and scientific implications of their proposal. As a final activity, they will present their proposals to their classmates.

Energy & Climate Strand

Energy Basics

Students will learn about different types of energy. They will then perform an energy audit at both indoor and outdoor sites on TFT's campus to map where energy is coming from and where energy is flowing to. Students use the concepts learned in this class as they conduct other investigations in future Energy and Climate courses.



Energy Generation

Students will discuss the different sources of energy (non-renewable such as coal, renewable such as wind, solar, etc.) and how energy is generated from these sources. Students will then conduct a series of measurements outside to construct an argument as to whether or not TFT has suitable sites for installation of a wind or solar power installation. Back in the classroom, students will experiment with different types of blades and gear ratios to compare and evaluate competing designs for a wind turbine based on electrical output.

Consumerism

In this evening class, students will learn about the term "carbon footprint" and discover the amount of energy used during the manufacturing, packaging, and transport stages of a product on its way from creation to consumer. They will then complete a calculation of their own, individual carbon footprint and discuss ways they can realistically be more sustainable in their resource use.

Climate Basics

After an introduction on the basics of what climate is and how the global climate has changed over the recent decades, students will visit outdoor stations to learn about how predicted climate change will affect forest dynamics such as plant communities, water resources, and wildlife.

FIELD EXPERIENCES

HIGH SCHOOL

Energy & Climate Strand (continued)

Carbon Sequestration

Students will travel off-campus to compare how much carbon is stored in different forest types. Through taking a series of forest measurements, students will estimate the carbon storing ability of each forest type. Back in the classroom, students will discuss trends they observed in the data and discuss a forest's ability to sequester carbon at different stages in its "life." They will then use the data they collect to discuss ways a forest could be managed to maximize carbon sequestration, and the pros and cons of those management decisions.



Future Forests

In this evening class, students will learn about what a scientific model is, and practice making their own, simple model. Once they have grasped the process of modeling, they will explore the USFS Climate Change Tree Atlas to discover how Wisconsin's forests might change over the next century. Through completing this activity, students will discover that forests may change in composition, but should not disappear as a result of climate change.



Green Home Design (Culminating Activity)

After a brief indoor energy audit to examine energy efficiency, students are given the opportunity to design their own hypothetical home and landscaping on a small plot of land. Using knowledge they've gained over the past days, students must choose among several options for add-ons and appliances to their home, but must stay within a realistic budget. After presenting their home designs, students will be able to evaluate how "green" their home was and participate in a discussion about the compromises that must be made when trying to "go green."



Optional Lessons:

Archery

Students will learn how to safely load a bow and shoot an arrow. Everyone will get to practice shooting at a target.

Birds of Prey

This slide program introduces students to the birds of prey in Wisconsin. It includes general characteristics of raptors, the seven families found in Wisconsin, threats facing birds of prey, and conservation efforts. A live bird of prey is available for this program.

Bog Ecology

Mysteries of the bog are revealed through this slide program and follow-up field tour. It's a place filled with "black holes," scraggly trees, and bouncing mats of moss. Students get a chance to get into wetlands while quaking and shaking on the bog.

Canoe Lessons

Students learn about equipment, safety procedures, and basic strokes necessary to become comfortable with paddling a canoe, then practice their skills on a lake.

Canoe Tour

After completing canoe lessons, groups can get out and paddle on a variety of nearby lakes. Students will continue developing skills while enjoying the beautiful Northwoods!

Challenge Activities

Students work cooperatively through a series of physical and mental challenges designed to increase confidence and self-esteem and to encourage teamwork. In spring, summer, and fall, an outdoor challenge course is available

Critter Catching

Students get hands-on as they sample nearby aquatic habitats for critters that live there. The types of organisms found help students diagnose the water quality.

Cross-Country Ski Lessons

Students will learn classical cross-country ski techniques. Ski skills include proper flatland, hill, turning, and touring techniques to safely enjoy this exciting sport.

FIELD EXPERIENCES

HIGH SCHOOL

Optional Lessons (continued)

Cross-Country Ski Tour

Students will glide along a variety of snowy Northwoods trails, building upon previously learned ski skills and developing confidence with their skills. Tours focus on the natural history of our forests, wildlife, and snow.

Human Survival Skills

In this hands-on activity, students will discuss what humans need to survive, what are the most important things to know in a survival situation, and what they should always have with them when they go out into the wild. They will then go outside and practice making shelters and/or fires.

Introduction to GPS

Students will be introduced to GPS technology. Classroom and field portions teach students how to use GPS, read a map, and record scientific data.

Night Hike

This reflective, sensory experience is designed to bring students in touch with nature at night. Students walk in the woods after dark without the use of flashlights to learn about how human and animal senses work in the darkness.

Orienteering

Students combine classroom instruction with an orienteering field course designed to teach the basics of map and compass use. Classroom work introduces how to use a compass and read a map. Students then use these skills to complete an orienteering field course while investigating the forest.

Reptiles and Amphibians

Who's slimy and who's not? Students take a close-up look at the differences between reptiles and amphibians and learn more about species found in Wisconsin. Participants will have an opportunity to observe TFT's own reptiles up close!



Wolves

This slide show helps students separate fact from fairy tale as they learn about wolf life, ecology, communication, and management techniques. A demonstration of a wolf howl survey is also available.

Discount and Scholarship Program

RETURNING to Trees For Tomorrow?

DISCOUNT PROGRAM	DISCOUNT
FILL THE BUS 55 or more participants	10% off
OFF-SEASON November and December Workshops	10% off
EARLY CONTRACT PROGRAM Sign your contract within 60 days of departure	Guarantee current year's rates
REFERRAL DISCOUNT Refer a grade or new school that attends TFT	3-5% off your next visit
HIGH-NEED SCHOLARSHIP Scholarship applied per person based on school and community financial needs	Varies
<i>Discounts subject to change without notice. Discounts and scholarship can be combined and are applied to final invoice.</i>	

NEW to Trees For Tomorrow?

ELEMENTARY & MIDDLE SCHOOL				
	Year 1	Year 2	Year 3	Year 4
	85% off actual cost	75% off actual cost	65% off actual cost	50% off actual cost
2 Days	\$30	\$45	\$81	\$90
3 Days	\$40	\$67	\$120	\$135
4 Days	\$55	\$90	\$165	\$180
<i>Note: all fees are approximate, per person, and are subject to change based on specific arrival and departure times, and final programs selected.</i>				
HIGH SCHOOL				
Contact Mandy directly for pricing.				

Contact Mandy Gingerich for more information: mandy@treesfortomorrow.com or 715.479.6456 x228

Field Experiences Pricing All prices are subject to change without notification.

Fees are for the Field Experiences program only and are per student/adult participant

Day Rates:

Fee includes instruction. Additional lesson fees may apply. Lunch is also available for an additional fee. Minimum charge of \$100 for half day and \$200 for full day.

Half Day	\$8.00/person
Full Day	\$11.00/person

Overnight Rates:

Fees vary depending upon arrival and departure times. Fee includes food, lodging, and instruction. Additional lesson fees may apply.

Number of Nights	Cost per person	
	Standard Rates	Off Season* Rates
1	\$76-87	\$68-87
2	\$139-149	\$125-134
3	\$181-192	\$163-172
4	\$214-235	\$193-211

**Off season dates: March 1-30, April 1-10, November 10-30, and December 10-31*

Vehicle Rental:

Trees For Tomorrow has vehicles that may be rented for travel to off-campus field sites during your stay for an additional \$11/person. Subject to availability.

Additional Lesson/Equipment Fees:

Additional fees are required for these lessons or equipment rental.

Animal Tracks	\$2.25/person
Archery	\$2.00/person
Canoes	\$7.00/person
Cross-Country Skis	\$16.00/person
Life of Paper	\$2.00/person
Live Animal Programs (Birds of Prey, Hands-On Herpetology, Relating to Raptors, Reptiles and Amphibians, and Wildlife Rehabilitation)	\$2.00/person
Snowshoes	\$9.00/person

Payment and Cancellation Policy:

You will be billed for a minimum of 80% of the expected number of participants listed on signed contracts for services. If more participants attend than what is listed on the contract, appropriate fees will be billed upon completion of services. 50% of total course fees are due 30 days prior to course. Balance will be billed upon completion of course. Credit card payments may be charged an additional processing fee. Cancellation fee may be charged if your entire group cancels.

Scholarships:

Scholarships may be available. Contact us today for more details on scholarship availability and application materials.

School Outreach Pricing All prices are subject to change without notification.

Program Rates:

Program rates apply to groups with up to 30 students. Contact us for rates for groups with more than 30 students.

Programs within a 1-hour drive or 60 mile radius of campus:

1 Hour	\$95 + mileage
1.5 Hours	\$130 + mileage
2 Hours	\$160 + mileage
3-4 hours	\$275 + mileage

Programs more than a 1-hour drive or 60 mile radius of campus will have additional travel time fees:

Within 1-2 hours	+ \$50
Within 2.25-3 hours	+ \$100
Within 3.25-4 hours	+ \$200

Additional Lesson Fees:

Animal Tracks	\$2.25/person
Snowshoeing	\$9.00/person
*Live Animals	\$10.00/program

**No more than 2 live animal programs per day.*

Program discounts:

Schedule several programs and save! Discount will be taken at the time of purchase and is applied to program cost only. Additional lesson fees, mileage, and vehicle rental are not included.

1 Program	Full Price
2-4 Programs	10% off
5+ Programs	15% off

Mileage Rates:

Mileage rates are calculated round-trip from Trees For Tomorrow to your school, plus additional travel to off-site natural areas, if needed.

Large bus	\$1.57/mile
Van	\$0.58/mile

Vehicle Rental:

Trees For Tomorrow has vehicles that may be rented for travel to off-site natural areas, if needed. Contact us today for more details.

Custom programs are also available - contact us today to discuss!

SCHOOL OUTREACH

Let us come to you! We welcome the opportunity to visit your classroom and explore the local fields and forest with your students! campus for programming?

GO VIRTUAL if you're unable to attend Trees For Tomorrow or host us in-person at your school. There are many options available! Your students can learn from, and interact with, our professional educators in a LIVE virtual format via Zoom or Google Meet. Our educators can lead the entire course or co-facilitate with your teaching staff.

AT YOUR SCHOOL CLASS	Time	Season	Pre-K	K-5	6-8	9-12
Animal Adaptations ¹	2 hrs.				x	
Animal Tracks ²	1 hr.		x			
Birds of Prey ²	1 hr.		x	x	x	x
Bog Ecology ¹	1.5 hrs.				x	x
Challenge Activities	1-1.5 hrs.		x	x	x	
Consumerism	1 hr.					x
Critter Catching ¹	1.5 hrs.		x	x	x	
Deer Ecology	1.5 hrs.		x			
Dress a Beaver	1 hr.		x			
Exploring Energy	1.5 hrs.				x	x
Fish Adaptations and Habitats	1.5 hrs.				x	
Forest Measurements ¹	1.5 hrs.					x
Hark, Who Grows There? ¹	1 hr.			x		
Human Survival Skills ¹	1.5 hrs.		x	x	x	
Introduction to Field-Based Science Skills ¹	2 hrs.				x	
Introduction to GPS ¹	1 hr.		x	x	x	
Introduction to Water Science Skills ¹	2 hrs.				x	x
Logging Days	1 hr.		x	x	x	
Nature Hike ¹	1 hr.		x			
Nature's Design	1.5 hrs.				x	
Orienteering ¹	1.5 hrs.		x	x	x	
Reptiles and Amphibians ²	1 hr.		x	x	x	x
Skulls, Skins, and Bones	1 hr.		x	x	x	
Snowshoeing ^{1,2}	1 hr.		x	x	x	
Taking the Right Step	1.5 hrs.				x	
Thermal Adaptations	1.5 hrs.				x	
Tree Identification ¹	1 hour		x	x	x	
Wolves	1 hr.				x	x

¹Requires travel to school forest or other natural area. Travel time not included in class time estimate.

²Additional material or live animal fees apply. See back page for details.

TFT-LEAD ONLINE CLASS ³	Time	Pre-K	K-5	6-8	9-12
Bats	~1 hr.	x	x	x	x
Birds of Prey	~1 hr.	x	x	x	x
Bog Ecology	~30 min.	x	x	x	x
Large Carnivore Mgmt.	~1 hr.				x
Logging Days	~1 hr.	x	x	x	x
Loons	~1 hr.	x	x	x	x
Pollinators	~1 hr.	x	x	x	x
Reptiles and Amphibians	~1 hr.	x	x	x	x
Stories in the Snow	~1 hr.	x	x	x	x
TFT History	~30 min.	x	x	x	x
Wolves	~1 hr.	x	x	x	x

³No pre-requisites required for these classes and you will not need to provide additional instruction.

CO-FACILITATED ONLINE CLASS ⁴	Time	Pre-K	K-5	6-8	9-12
Carbon Footprint	1.5 hrs.				x
Dress A Beaver	1 hr.		x		
Energy Basics	3 hrs.				x
Introduction to Field Based Science Skills	2 hrs.				x
Nature's Design	1.5 hrs.			x	
Taking the Right Step	1.5 hrs.			x	
Thermal Adaptations	1.5 hrs.			x	
Trail Cameras	1.5 hrs.				x
Tree Identification	1 hr.	x	x	x	x
Wildlife Rehabilitation	3 hrs.				x

⁴These classes work best in a live, conversation-like format with screen sharing enabled. Our instructors lead portions of each class such as introductions and wrap-up, while you guide students through the process or data collection and group discussions. Lesson plans would be shared with you in advance with a planning meeting scheduled to discuss logistics and details of the lessons.

SCHOOL OUTREACH

Animal Adaptations

In the classroom, students will make observations of animal parts, noting what adaptations are present and how they might allow the animal to survive in a given habitat. Students will then explore new field sites to determine whether their animal is adapted to live in a variety of habitat types.

Animal Tracks

Students explore real-life animal tracks and other animal signs. Then, students will use Plaster of Paris with rubber molds to create an animal track in this make-and-take program. Maximum 30 participants at one time.

Bats

This slide program focuses on these interesting and misunderstood flying mammals. Topics covered include various species of bats, and their ecology and conservation.

Birds of Prey

This slide program introduces students to the birds of prey in Wisconsin. It includes general characteristics of raptors, the seven families found in Wisconsin, threats facing birds of prey, and conservation efforts. A live bird of prey is available for this program.

Bog Ecology

Mysteries of the bog are revealed through this slide program and follow-up field tour. It's a place filled with "black holes," scraggly trees, and bouncing mats of moss. Students get a chance to get into wetlands while quaking and shaking on the bog. **Bog boots not included.**

Carbon Footprint/Consumerism

TFT educators discuss the amount of energy used in the manufacturing, packaging, and transport stages of a product in a slideshow format. TFT instructor then leads class on a calculation of their own carbon footprints and discusses with class how individuals might realistically reduce their resource use.

Challenge Activities

Students work cooperatively through a series of physical and mental challenges designed to increase confidence and self-esteem and to encourage teamwork and mutual group support.

Critter Catching

Students get hands-on as they sample nearby aquatic habitats for critters that live there. The types of organisms found help students diagnose the water quality.

Consumerism

This course takes a look at how all consumers can be more informed regarding their use of products. Students will learn to think critically as they explore the difference between wants and needs and how we can use our own values and opinions to make the best decision about the use of natural resources.

Deer Ecology

This program focuses on the life history, ecology, and special adaptations of an important Wisconsin game species. Students will engage in a simulation activity that focuses on an urban wildlife dilemma facing many cities today.

Dress a Beaver

This fun and engaging program introduces students to beaver adaptations, ecology, and life history. Watch as one of your students transforms into a beaver before your eyes!

Energy Basics

Students learn about different types of energy through a TFT educator-led slideshow. Afterwards, students map energy flows in the school's outdoor space and/or indoor space.

Exploring Energy

Energy comes from a variety of sources, both renewable and nonrenewable. In this activity, students will see how much they know about energy usage and energy supplies as they test their knowledge in Energy Jeopardy.

Fish Adaptations and Habitats

Students will examine fish adaptations to understand the diversity of fish morphology and how it provides adaptive advantage for specific habitats. Students will then design a "best habitat" for their fish species based on what they have learned.

SCHOOL OUTREACH

Forest Measurements

Students become foresters and discover the importance of inventorying the forest by measuring it. They will learn skills to use forestry tools, estimate wood volumes, and then make forest management decisions based on their data.

Hark, Who Grows There?

Students actively participate in a modified hide-and-seek wildlife investigation game. Students explore potential forest uses, analyze different habitats and forest management practices, and justify which use they feel is most appropriate for each habitat.

Human Survival Skills

In this hands-on activity, students will discuss what humans need to survive, what are the most important things to know in a survival situation, and what they should always have with them when they go out into the wild. They will then go outside and practice making shelters and/or fires.

Introduction to Field-Based Science Skills

In this class, students practice using scientific tools and observation skills to describe a place in the forest. Groups of students get their own site to observe and measure. Together, the students will determine what biotic and abiotic components help create ecosystems.

Introduction to GPS

Students will be introduced to GPS technology. Classroom and field portions teach students how to use GPS, read a map, and record scientific data.

Introduction to Water Science Skills

Students build observation and data-gathering skills by collecting data at an aquatic site. Students will collect a variety of biotic and chemical data about their site, compare and analyze data, and draw conclusions on the health of the natural water system.

Large Carnivore Management

This slide show discusses the ecology, distribution, and management regulations of 3 large carnivores (wolves, bears, and cougars) found in Wisconsin.

Logging Days *(Online class does not include games.)*

Watch out Paul Bunyan! After a glimpse at early logging camp life, students swing into logging events such as cross-cut sawing, lighting a match with a small hatchet, and the tree cookie roll.

Loons

In this slideshow, students learn about loon behavior, calls, and conservation.

Nature Hike

Students explore the forest and other natural areas looking for animal signs, evidence of seasonal changes, and various plants along a trail.

Nature's Design

Students explore engineering applications of scientific knowledge for social benefit. Students use electronic and print resources to research specific adaptations of organisms and apply these adaptations to a design, which they present to the whole group at the end of class.

Orienteering

Students combine classroom introduction with an orienteering field course designed to teach the basics of map and compass use. Classroom work introduces how to use a compass and read a map. Students then use these skills to complete an orienteering field course while investigating the forest.

Pollinators

Students learn about the different classes and species of pollinators, and their ecological and economical value in this slideshow.

Reptiles and Amphibians

Who's slimy and who's not? Students take a close-up look at differences between reptiles and amphibians and learn more about species found in Wisconsin. Participants will have an opportunity to observe TFT's own reptiles up close!

Skulls, Skins, and Bones

Students will identify animals by their skulls, skins, and bones. We will be looking at the structure and function of different parts of animals and what they can tell us about that animal.

Snowshoeing

Explore the outdoors in a new way! Students will learn about the design of wooden snowshoes, then practice using them in the schoolyard or go for a snowshoe hike in the school forest.



SCHOOL OUTREACH

Stories in the Snow

In this slideshow, students learn to recognize typical track patterns of Wisconsin mammals. Other common animal signs are discussed as well.

Taking the Right Step

Students will determine surface area and weight displacement of animal feet to see how they have adapted to life in cold climates. They will design and test their own device then compare devices and make inferences as to why some were more successful than others.

TFT History

This program focuses on the history behind TFT and the mission and goals of the organization since 1944

Thermal Adaptations

Students conduct an experiment to determine how animals use adaptations and their environment to minimize internal temperature change in the winter. Students will write and test a hypothesis for their experiment, use observation skills, record data, and discuss the results with instructors and peers.

Trail Cameras

TFT educators lead students in a discussion of trail cameras as a scientific tool through a slideshow presentation. Afterwards, students contribute to citizen science by classifying pictures in the DNR Wildlife project, Snapshot Wisconsin. Afterwards, students will examine data collected by Snapshot Wisconsin, and, led by TFT educators, participate in a discussion on what the data means and how it can be used.

Tree Identification

Students will discuss unique characteristics of trees and use a dichotomous key to identify native Wisconsin tree species. They then apply their knowledge in a tree identification course in your schoolyard or school forest.

Wildlife Rehabilitation

TFT instructors lead students in a discussion about wildlife rehabilitation. Afterwards, students are given scenarios (from previous on real-life situations) that they must work through as “wildlife rehabilitators”. Then TFT educators lead a slideshow presentation that discusses what was decided in real-life in each of the scenarios. A live, re-habbed bird and turtle are available for this program.

Wolves

This slide show helps students separate fact from fairy tale as they learn about wolf life, ecology, communication, and management techniques. A demonstration of a wolf howl survey is also available. High School groups may include an additional mock debate on wolf management practices for an additional half an hour.

Virtual/Online Pricing

VIRTUAL SCHOOL PROGRAMS	COST
OPTION 1: Full Facilitation Interactive virtual programs completely taught by TFT educators.	\$150 <i>30-60 minutes</i>
OPTION 2: Co-Facilitation TFT Educators share lesson plans with the teacher and lead portions of each class.	\$150-400 <i>based on format and level of involvement</i>

