



EDUCATIONAL PROGRAMS: Preschool

On-Site & Outreach Programs	Grade Level	Length of Time	Program Description
TREE-mendous Trees	Pre-K	30 min.	Explore the TREE-mendous world of trees and forest habitats through this interactive program. Students will learn to identify the different parts of a tree, discover the variety of creatures that call a tree home, and make bark and leaf rubbings. If the lesson is conducted on site, the students will participate in a nature walk.
Silly Seeds	Pre-K	30 min.	What does a plant need in order to grow? Students will discover the world of germination through hands-on activities ranging from seed dissection, to seed sorting, and science experiments related to seed dispersal. The lesson will include a seed related craft and story.
Feathered Friends	Pre-K	30 min.	Students will dive into the world of birds and learn how to identify where birds live, and what they eat based on physical characteristics. Students will handle replica bird beaks, practice feeding like a hummingbird, and make their very own bird feeder to take home. The lesson will conclude with a story about birds.
Wiggly Worms & Soil	Pre-K	30 min.	Where does a worm live and how does it help the soil? What is soil made of? Students will uncover the answer to these questions and more as they work up close with red wiggler worms and other soil critters. If conducted on site, students will dig in the soil for decomposers. If conducted off-site, students can help make a compost bin (if arranged prior).
Hungry, Hungry Caterpillar	Pre-K	30 min.	Trace the development of a butterfly from an egg to an adult. We will read and act out parts from Eric Carle's "The Very Hungry Caterpillar". The lesson will include a butterfly life cycle craft.
Diggin' For Dinos	Pre-K	30 min.	Travel back in time to walk with the dinosaurs! Students will become paleontologists and learn about dinosaur egg size and teeth shape through interactive matching games. The little paleontologists will also learn the art of fossil imprinting and make their own Gingko imprints to take home.



EDUCATIONAL PROGRAMS: K-2

On-Site & Outreach Programs	Grade Level	Length of Time	Program Description	NJ State, Common Core & Next Generation Science Standards
Tree Homes	K-2	30 min.	Some scientists claim that a tree can be home to 500 creatures. Meet some of these creatures up close, complete bark rubbings, participate in a leaf scavenger hunt and plant your very own maple seed to take home!	5.1.P.B.1; 5.1.P.C.1; 5.3.P.A.1-2; 5.3.2.A.1; 5.3.2.B.1-3; 5.3.P.C.1; 5.3.2.C.1-2; 5.3.2.D.2; 5.3.2.E.1; 2-LS2-1; 2-LS4-1; K-ESS2-2; K-ESS3-1
Silly Seeds	K-2	30 min.	What does a plant need in order to grow? Students will discover the world of germination through hands-on activities ranging from seed dissection, to seed sorting, and science experiments related to seed dispersal. The lesson will include a seed related craft and story.	5.1.P.B.1-3; 5.1.P.C.1; 5.2.2.C.2; 5.3.2.A.1; 5.3.2.B.1-3; 5.3.2.D.2; 5.3.4.D.1; 5.4.P.E.1; 5.4.2.E.1; 2-PS1-1; K-PS3-1; K-LS1-1; 1-LS1-2; 2-LS2-2; K-ESS3
Recipe for Soil	K-2	30 min.	What is going on beneath your feet? Take a close-up look at soil, its many components and the organisms that live in it. Students will have the opportunity to hold red wiggler worms and conduct their own soil percolation rate experiments.	5.1.P.A.1; 5.2.P.A.1; 5.2.2.A.1-2; 5.3.P.A.1-2; 5.3.2.A.1; 5.3.P.B.1; 5.3.2.B.1-3; 5.3.P.C.1; 5.3.2.C.1-2; 5.4.P.C.1; 5.4.2.C.1-2; 5.4.2.E.1; 5.4.2.G.3; K-LS1-1; 2-LS2-2; 2-LS4-1; K-ESS2-2; 2-ESS1-1
Rainbow on my Plate	K-2	30 min.	Students will embark on a nutritious adventure as they learn about the importance of eating a variety of different colored foods at every meal. Through a series of sorting games and hands-on activities, students will discover how different colored foods help keep different parts of their bodies healthy.	2.1; 2.1.2.A.1; 2.1.2.B.1-2; 5.3.2.A.1; 5.3.4.A.1; 5.3.2.B.1; 5.3.2.D.2; 5.3.4.D.1; 5.3.2.E.1; 5.4.2.C.1; 5.4.4.C.1-2; K-LS1-1; 2-LS2-2; 2-LS4-1; K-ESS2-2; K-ESS3-1
Hungry, Hungry Caterpillar	K-2	30 min.	Trace the development of a butterfly from an egg to an adult. We will read and act out parts from Eric Carle's "The Very Hungry Caterpillar". The lesson will include a butterfly life cycle craft.	5.1.P.B.1-3; 5.3.2.A.1; 5.3.2.B.1; 5.3.P.D.1; 5.3.2.D.1-2; ELA- Literacy.RL.K-2.1-4; ELA- Literacy.SL.K-2.1-3; K-LS1; 2- LS2-2

Yummy Plant Parts	K-2	30 min.	Students become botanists as they work together to build a tomato plant and label all of its working parts. By the end of the lesson, students will be able to decipher a fruit from a vegetable and describe the life cycle of a flowering plant from seed to fruit!	2.1; 2.1.2.A.1; 2.1.2.B.1-2; 5.3.2.A.1; 5.3.4.A.1; 5.3.2.B.1; 5.3.2.D.2; 5.3.4.D.1; 5.3.2.E.1; 5.4.2.C.1; 5.4.4.C.1-2; K-LS1-1; 2-LS2-2; 2-LS4-1; K-ESS2-2; K-ESS3-1
Leaf of a Different Color	K-2	30 min.	Why do leaves change color in the fall? Follow a leaf from beneath the bud in winter to a mulch pile the following fall. Embark on a fall nature walk, complete leaf rubbings and listen to a fun fall story. Program available September-November.	5.2.P.A.1; 5.3.P.A.1; 5.3.2.A.1-2; 5.3.4.A.1-2; 5.3.P.B.1; 5.3.2.B.1,3; 5.3.4.B.1; 5.3.2.D.2; 5.3.2.E.2; 5.4.2.E.1; 5.4.2.G.3; K-LS1-1; 4-LS1-1; 5-LS1-1; 2-LS4-1; 3-LS4-4; 1-ESS1-2; K-ESS2-2; K-ESS3-1
Fred the Fish – A Water Pollution Story	K-2	30 min.	Join Fred the Fish on his downstream adventure from the mountains to the city. Learn how activities we do every day, from throwing our trash away to washing our cars, can impact local waterways and turn Fred’s crystal clear aquatic home into a polluted mess right before our eyes.	5.3.P.C.1; 5.3.2.C.1; 2-LS2-2; 5.1.P.B.2; 5.1.P.C.1; 5.3.P.A.1-2; 5.3.2.A.1-2; K-ESS2-2; K-ESS3-1;



EDUCATIONAL PROGRAMS: 3-5

On-Site & Outreach Programs	Grade Level	Length of Time	Program Description	NJ State, Common Core & Next Generation Science Standards
Tree Detectives	3-5	45 min.	What is a tree? Did you know trees have names? How do scientists classify trees? To answer these questions we will embark on a tree-filled scavenger hunt and look at the various characteristics scientists use to identify trees, using dichotomous keys as our guides.	5.1.4.D.4; 5.3.4.A.1-2; 5.3.4.B.1; 5.3.4.C.1-2; 5.3.4.D.1; 5.3.4.E.2; 3-LS1-1; 4-LS1-1; 5-LS1-1; 3-LS3-2; 3-LS4-3
Have Seed, Will Travel	3-5	45 min.	Investigate how and why seeds travel from their parents. Some plants hitchhike, while some blow in the wind. Can you guess which seeds float? Try your hand a creating your own seed dispersal machine. Each student will plant a seed to take home.	5.1.4.B.3-4; 5.3.2.A.1; 5.3.4.A.1-2; 5.3.2.B.1-3; 5.3.4.B.1; 5.3.4.C.1; 5.3.4.D.1; 5.3.4.E.1; 4-LS1-1; 3-LS3-1; 3-LS4-2

Let it Rot!	3-5	45 min.	Take a look at recycling for your garden. Don't waste all of your treasures by tossing them in the garbage; create a mini compost heap. Learn which things to add and which to avoid in a healthy compost pile, and which critters can help.	5.3.4.A.1; 5.3.4.C.1-2; 5.3.4.D.1; 5.4.4.C.1-2; 5.3.4.D.1; 5.4.4.C.1-2; 3-LS-1; 4-LS1-1; 3-LS4-4; 3-ESS2-2; 4-ESS2-1
WETlands	3-5	45 min.	Explore the wetlands around the Delaware River through story and pictures. Discuss the many reasons wetlands are important. Students will work in groups to build their own wetland filters.	5.1.4.D.4; 5.3.4.A.1-2; 5.3.4.B.1; 5.1.4.B.3-4; 5.3.4.C.1-2; 3-LS1-1; 4-LS1-1; 5-LS1-1; MS-LS2-3; 3-ESS2-2; 4-ESS2-1
Butterfly Habits	3-5	45 min.	What makes a butterfly an insect? How do butterflies protect themselves? Learn about the interesting life cycle of butterflies and the ways evolution has helped them protect themselves from becoming someone else's lunch.	5.1.P.B.1-3; 5.3.P.A.1-2; 5.3.2.A.1; 5.3.4A.1; 5.3.2.B.1-2; 5.3.2.C.1-2; 5.3.4.C.1; 5.3.2.D.1-2; 5.3.4.D.1; 5.3.2.E.2; 3 & 4-LS1-1; 3-LS4-2-3
Birds of a Feather	3-5	45 min.	Birds come in all shapes and sizes. Learn how different species of birds have evolved to survive in the environments in which they are found. Through games and hands-on activities, students will learn to identify both a bird's habitat and food source by examining our feathered friends' physical adaptations.	5.1.P.B.2; 5.1.P.C.1; 5.3.P.A.1-2; 5.3.2.A.1-2; 5.3.P.B.1-2; 5.3.2.B.1-2; 5.3.P.C.1; 5.3.2.C.1; 5.3.P.D.1; 5.3.2.D.1; 5.3.2.E.2; K-LS1-2; 1-LS-1,1,2; 2-LS2-2; 2-LS4-1; K-ESS2-2