Garden Programs

at Tradewinds Park
Tailored for all ages: Pre-K to Adult!

This school year come get your hands dirty at Tradewinds Park while learning about sustainable farming practices, and the wonderful world of plants! For the 2019-2020 school year, Youth Environmental Alliance is offering a series of 30-minute, 1 hour, or 2 ½ hour-long hands-on programs for all ages at our new garden site. Spend the day with us or combine your program with one of the other education programs offered at the park for a full day of farming fun! All horticulture education programs are developed according to the curriculum guidelines of the Florida State Standards. Please see the benchmarks listed under each program description.

2 ½ Hour Programs - $15 per student includes take home projects for continued learning

Vegetable and Herb Gardening - A tour through the various methods of growing your own food, from hydroponics and aquaponics to raised bed gardens to grow bags. Students and teachers will learn how to plant vegetables and herbs in each garden type and how to construct their own gardens at the school or at home! They will also learn about fish ecology and the best types of fish for aquaculture, and about how these various methods of agriculture are used in the ocean and on land around the world for sustainable food production. Students will take home vegetable seeds to apply what they have learned at home. SC: K.N.1.2; K.N.1.5; K2.CS-CP.1.3; 1.E.6.1; 3.N.1.3; 1 & 3.L.14.1, 1.L.14.2 & .3; 1.L.16 & 17.1 & .2; 1.N.1.1; 2.E.6.2 & 3; 2.L.16 & 17.1; 3.L.14.1 & 2; 2 & 3.L.17.2; 3.N.1.1 & 3; 4.L.16.1, 2 & 4; 4.L.17.1 & 4; 4.P.9.1; 5.P.8.3; 8.L.18.1; 912.L.17.10 & 11 & 12

Wonderful World of Wiggly Worms and Compost - Wiggle your way through compost and vermipost to learn about the sustainability cycle and gardening using home-made, nutrient filled soil and see how vermiposting can lead to gardening in a variety of ways including hydroponics, aquaponics, and raised bed gardens. Students will learn about decomposition and decomposers, how to grow worms for fishing and gardening, how to collect compost materials and turn a compost pile, how to vermicompost and make their own worm bin, how to make “worm tea” as a natural fertilizer and insecticide and much more! Students will make a biodegradable pot and plant in it in compost to take home to continue the lesson. SC.K.N.1.2; 1.E.5.3; 1.E.6.1; 2.E.6.2; 1 & 2.N.1.3; 4.E.6.5; 4.P.9.1; 7.L.17.1 & 2

Hydrological Horticulture! - This program investigates the technology behind hydroponics and aquaponics and how to grow utilizing the technologies. The program will explore how hydroponics is used on a global level as well as how to use it at home or school. Students will learn how and what to plant utilizing each system, the nutritional and special requirements and the benefits of each, with a special focus on sustainability, fish ecology, and water pollution. Students will become hydrological and solar engineers as they explore the engineering of each system and put together a solar installation. Students should bring an empty water bottle to create their own hydroponics system to take home. SC: K.E.5.3; K.N.1.1; K.N.1.5; K.P.9.1; 1.E.5.4; 1.L.17.1; 1.N.1.2; 3.E.5.2; 3.L.14.1; 3.L.17.2; 3.N.1.1; 4.L.17.2 & 3; 4.P.10.1; 6.E.7.4; 7.E.6.6; 7.L.17.1 & 2; 7.L.17.2; 7.P.11.2
Garden Programs

2.5 Hour Programs - Continued

**Gardening for Pollinators, Birds, and Wildlife** - This program takes students on a tour through natural ecosystems of Florida and shows them how ecological principles can be applied in a variety of settings to garden for wildlife and themselves utilizing native plants. Using the aquaponics, grow bags and raised beds, as well as a garden on campus and a natural wetland and upland area, students will be able to draw comparisons between natural areas and the means that they have at home and school to garden for wildlife. They will also learn about edible native plants. Students will take home a wildlife plant seedling. SC.4.L.16.1; SC.4.L.17.4; SC.7.L.17.2; SC.4.L.16.1; SC.4.L.17.4; SC.7.L.17.2

**Fishing for Sustainability!** - This program teaches how students can be self-sustaining through a symbiosis with fish and plants. They will learn how to fish ethically and how to raise fish and food crops in an aquaponics system. They will also experience the joy of farming worms to create dirt for gardens and food for fish while utilizing garden waste to feed the worms. In turn, the garden can be fertilized with the remnants of a complete and healthy fish dinner! This zero-waste cycle is self-sustaining and perpetuating. SC. 1.E.5.3; 1.E.6.2; 1.L.14.1; 1.L.17.1; 1.N.1.2; 2.L.17.1; 2. & 3.N.1.1; 2.E.6.2; 3.L.17.2; 4.E.6.3; 4.E.6.5; 4.L.17.2 & 3 & 4; 4.P.9.1; 6.E.7.4; 7.E.6.6; 7.L.17.1 & 2 & 3; 7.P.11.2; 8.1.18.1 & 2

**Pollinators and Beneficial Insects and Wildlife** - This program amplifies student awareness to small symbiotic and ecological relationships that protect our gardens from pests. Students will explore the fascinating world of insect predation and parasitism. They will learn how to perform insect sweeps to survey insect and pollinator populations and learn about lifecycles in terrestrial and aquatic systems. Students will also look at other wildlife that is beneficial to have around the home and garden landscape. SC. 2.L.16.1; 4.L.16.1 & 4; 4.L.17.4; 6.L.14.2; 6.L.14.6; 7.L.17.1 & 2 & 3; 912.L.17.9

**1 Hour Plants and Me Program - $6 per student**

Students become horticulturalists and learn how to live in symbiosis with plants as they explore how we relate to plants, what they provide for us and how to propagate and grow plants for a sustainable future. Students and teachers will plant a seed or seedling to take home with them to start their own garden! Make a biodegradable pot and use “worm tea” as plant food as you continue to explore gardening methods including composting with worms! SC: K. & 1.L.14.1; K.N.1.2; K.P.9.1; 1.L.14.2; 1.L.17.1; 1 & 3.N.1.1; 2.L.17.1; 3.N.1.3; 3.L.14.1; 3.L.17.2; 3.L.14.2; 4.L.16.1 & 4; 8.L.18.1

**30 Minute Plants and Me Add-On Program - $3 per student**

Students planning to visit the farm for a tour of the livestock animals or for pony rides can add a 30 minute Garden Program to their day at the farm for only $3! Programs will be added to the rotation of your classes’ Barn Tour, Story Time, and Music Time. Students will learn about their relationship with plants, what they provide for us and how to propagate and grow plants for a sustainable future. Students and teachers will plant a seed or seedling to take home with them to start their own garden! SC: K. & 1.L.14.1; K.N.1.2; K.P.9.1; 1.L.14.2; 1.L.17.1; 1 & 3.N.1.1; 2.L.17.1; 3.N.1.3; 3.L.14.1; 3.L.17.2; 3.L.14.2; 4.L.16.1 & 4; 8.L.18.1

Want to learn more?

Call Youth Environmental Alliance at 954-382-0188 or email jan@yeafrog.org to schedule your program!