STEM Sampler Programs for Schools

Contact Christy McGillivray, the STEM education coordinator with the Farmington Hills Nature center to book a program:

Cmcgillivray@fhgov.com

248-477-1135

Heritage Park offers 200 acres of land, 4 miles of nature trails, and year-round nature education programs

STEM (Science, Technology, Engineering and Math), is a focused approach to curriculum used in schools across the country. These disciplines provide foundational skills for students as they explore career options in the global knowledge economy. The Farmington Hills Nature Center now offers new STEM programs for 6-12 grade students to help cement these skills with field experiences and project-based learning.

STEM Educational Programs Supported by the Bosch Community Fund

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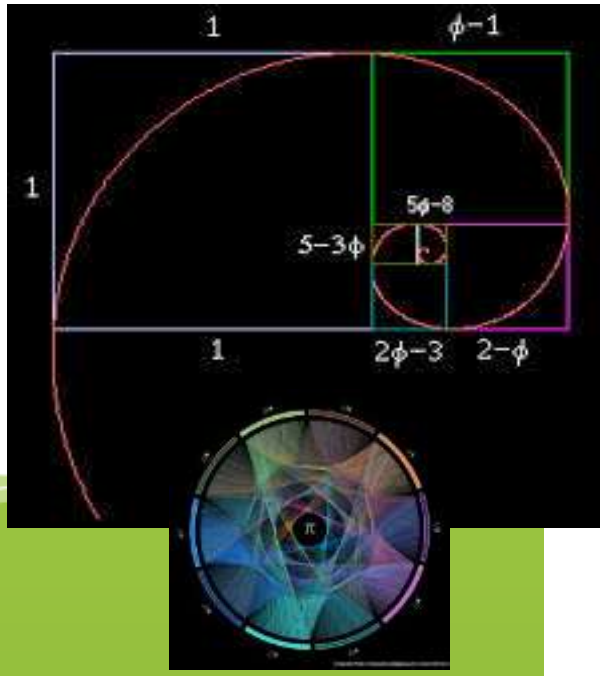
STEM Education Program Guide

FARMINGTON HILLS
SPECIAL SERVICES Michigan

FARMINGTON HILLS Michigan
Nature Center
DEPARTMENT OF SPECIAL SERVICES

STEM programs to support Schools

The **BOSCH Community Fund** has provided generous support to the Farmington Hills Nature Center to develop and deliver STEM education programming grounded in project-based experiential learning. With a focus on energy efficiency & engineering for the future, the programs link to Farmington Public Schools curriculum areas.



Programs <u>at your school:</u> $3 per student, $60 minimum

Programs <u>at the Nature Center:</u> $3 per student, $30 minimum

Scholarships are available to cover costs, including transportation, for schools and students. Email Christy McGillivray for information: <u>cmcgillivray@fhgov.com</u>

Curriculum Links
E2.1A-E5.4D, P3.2B-P4.3C, P4.10A-P4.10D, B2.3C-B3.5E, L4.1.2-L4.43, L1.3.1, S1.3.1 and S4.2.2

<u>Middle School/High School STEM Sampler Programs</u>

<u>Renewable Energy Program:</u> Students will bring their own devices (ipads, tablets, smartphones, or laptops), to research renewable energy options based on real-world energy problems. Devices will be used for games-based learning about the real-world application of renewable energy options. A follow up program to build working wind turbines is available.

<u>Energy Efficiency Program:</u> Students will explore the differences between energy efficiency and conservation through outdoor activities at Heritage Park and receive a home energy audit packet to take home. They will develop a plan to conserve energy in their daily lives. Extensions and follow-up lessons are available.

<u>Engineering for the Future:</u> Students will explore real-world engineering problems based on cradle-to-cradle concepts and biomimicry. Extensions and follow-up programs are available.

Programs run 1-2 hours and can be tailored to time constraints and specific needs.