

Flagler County

STEM Academy

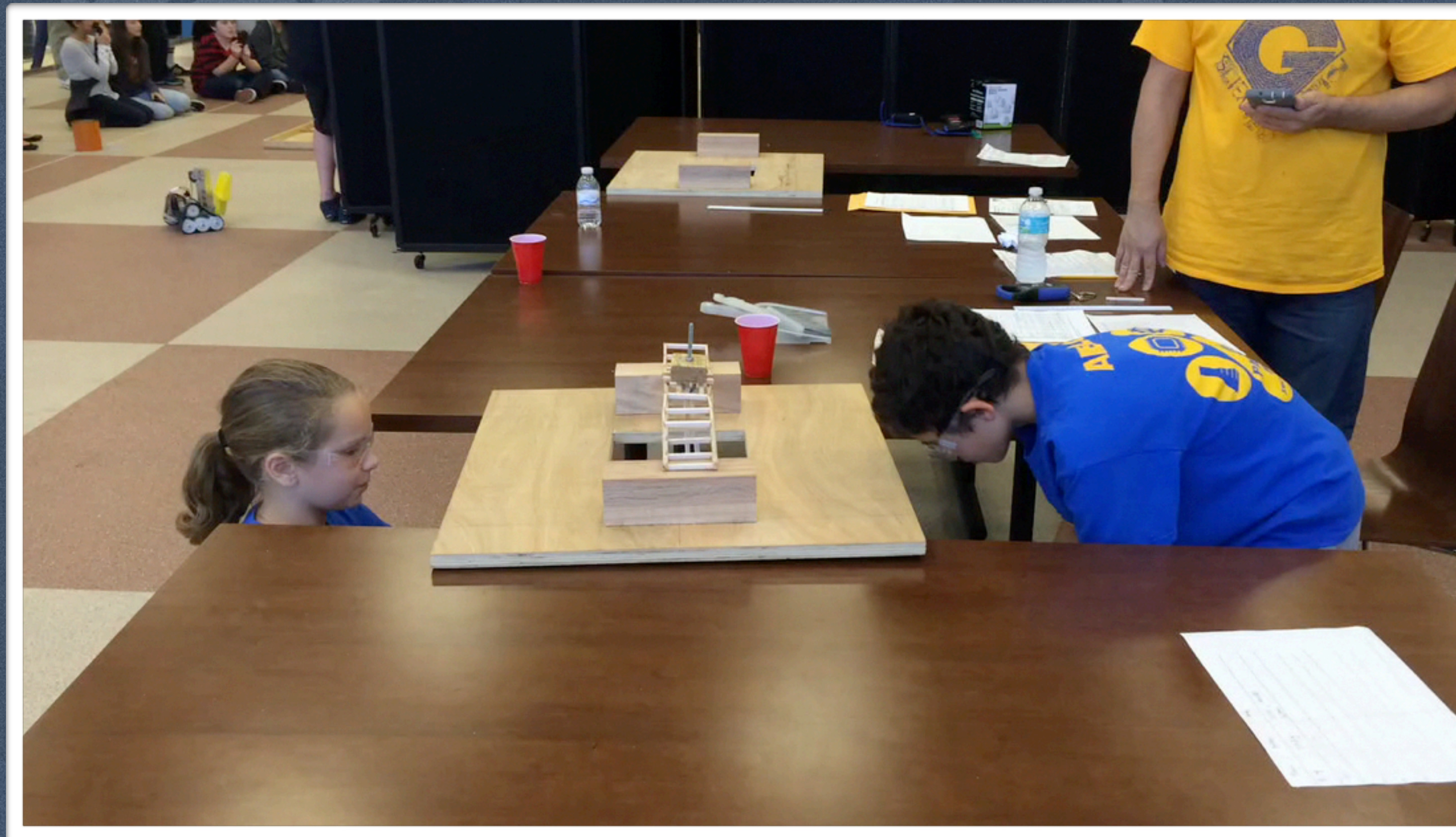
Preparing students who will build our future



Part of the Wadsworth Elementary School
STEAM Flagship Program

Mission

Educate and inspire the engineers of the future.





Vision

Provide an engaging environment that empowers students to learn perpetually using technology, flexible scheduling, and project-based learning.



Location

 Housed at **Wadsworth Elementary School** where the program will utilize currently empty classrooms and one lab along with the school's cafeteria and office services

 Students will have the opportunity to participate in Wadsworth's Special Area Classes, Afterschool Clubs, Awards Programs, and PBS



Students



6th Grade for the 2015-2016 School Year



Projected Enrollment: 44 students



All prospective students will be interviewed and offered guidance to ensure the program fits the student's needs



Current Phoenix Academy Students will be contacted and given the opportunity to tour the facilities and attend a presentation on the program








Students will participate in district progress monitoring and program success will be measured by FSA reporting



Enrollment for 5th grade students will be offered for future program expansion

Flexible Scheduling

-  Students can attend **Early Session** (7:15AM - 1:30PM) OR
-  Students can attend **Late Session** (9:00AM - 3:30PM) OR
-  Students can attend **BOTH Sessions** (over 6 full hours of instruction)
-  **Flipped Classroom**- students can complete practice assignments at home and use school time for project development.
-  Coursework outlines will be provided **online** using Schoology, Canvas, and Khan Academy

Instructional Staff




- 🐾 Projected Staff: 1 Director/
Teacher, 1 Teacher, 1 Parapro
- 🐾 An **"ON CALL"** teacher is
available during most weekdays
from 5:00PM - 7:00PM via text or
email for students or parents.
- 🐾 Teachers will utilize **community
professionals**, both in person and
using video conferencing, to
provide instruction based on real-
world experiences.
- 🐾 Supported by the current staffing
program

Community Involvement

- 🐾 Monthly **"Ask an Expert"** Session with Community Representatives
- 🐾 **Field studies** at KSC, Embry Riddle, & Northrup Grumman
- 🐾 Parents/Guardians must attend **quarterly conferences** either online or in person
- 🐾 Parents/Guardians must **volunteer** for at least 8 hours during a weekday or weekend event throughout the school year



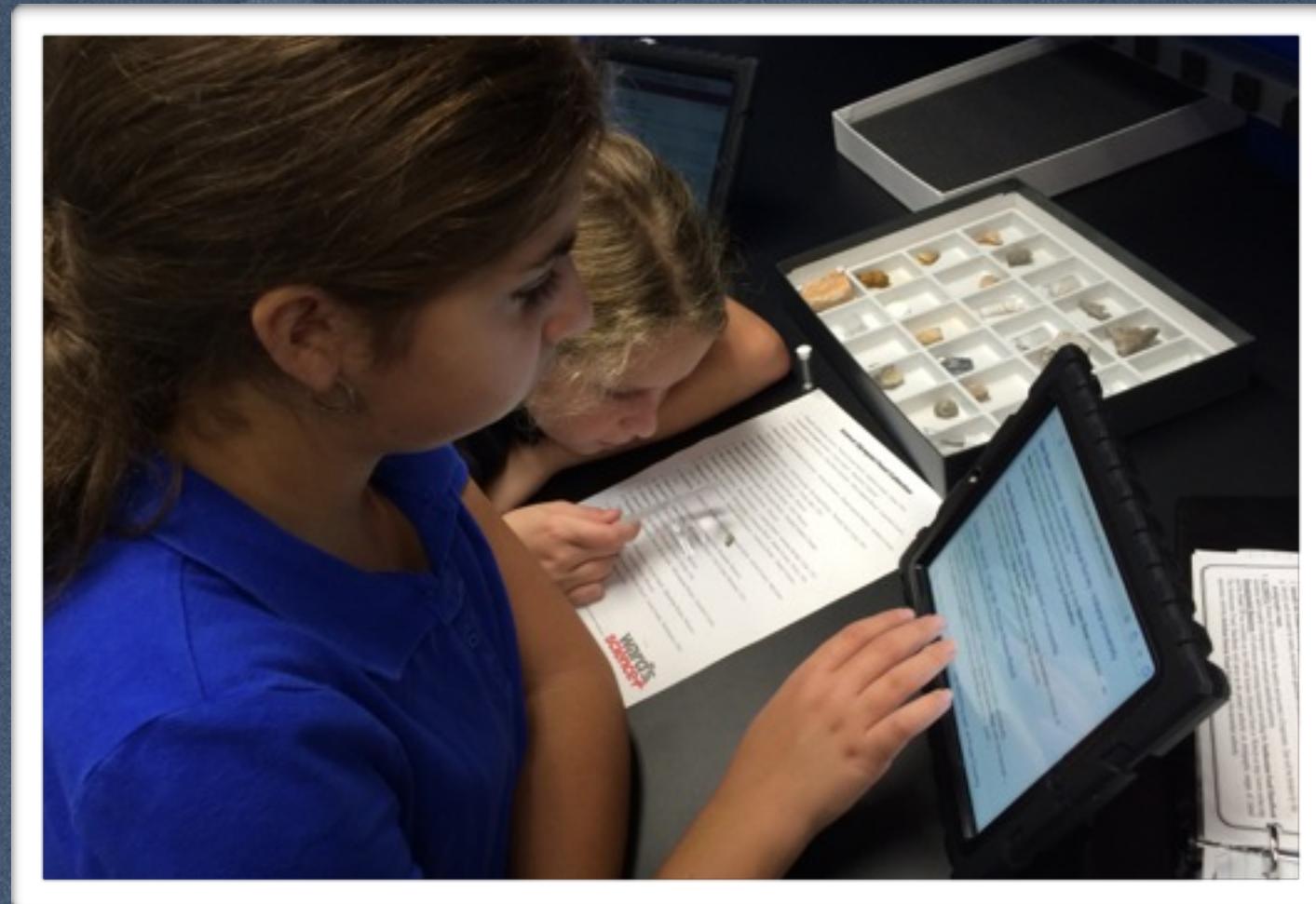
Technology

 **iPads** and **MacBooks** for each student in order to access online instructional resources and maintain a paperless classroom

 Parents must agree to District Technology Loan Program

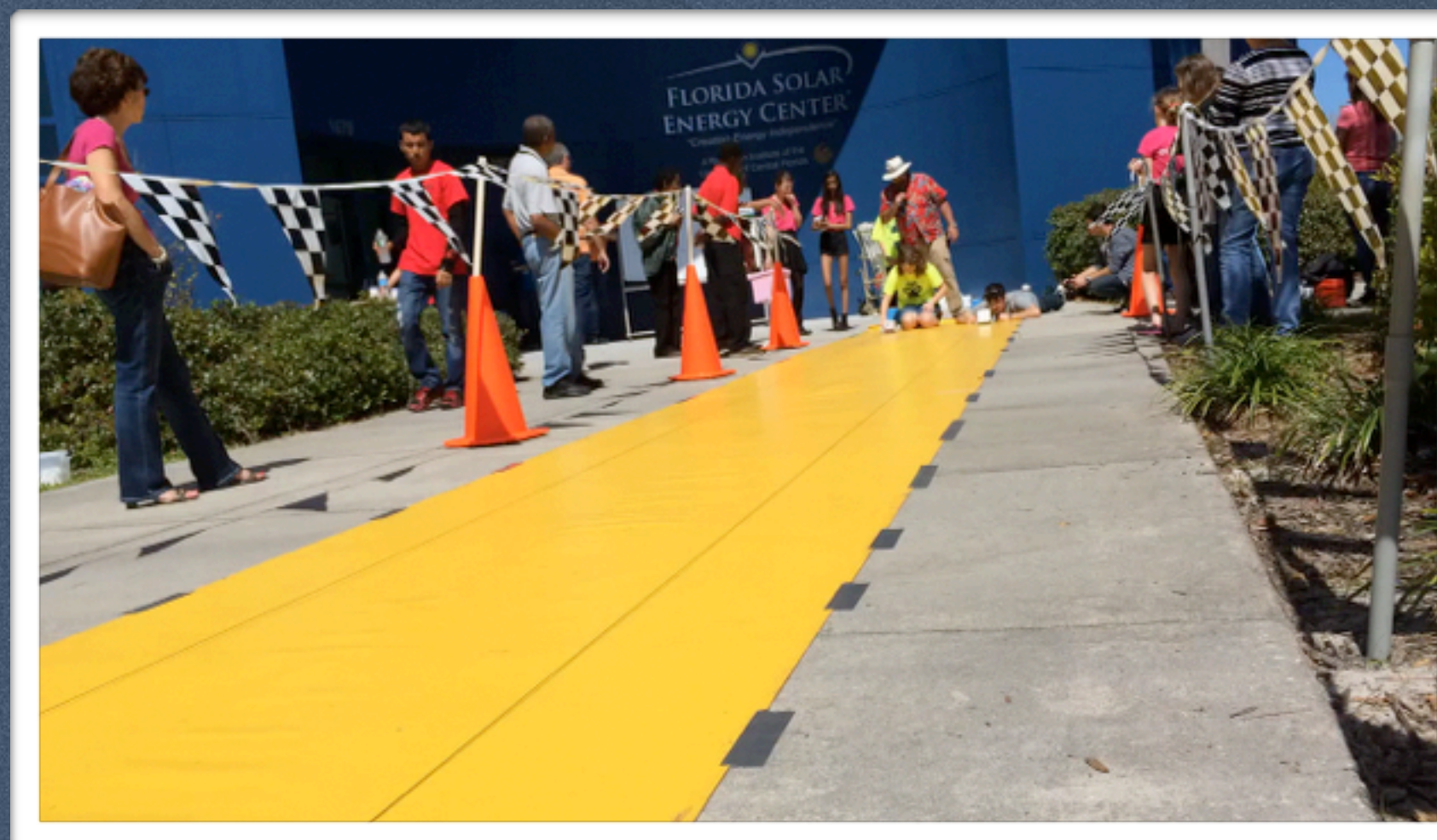
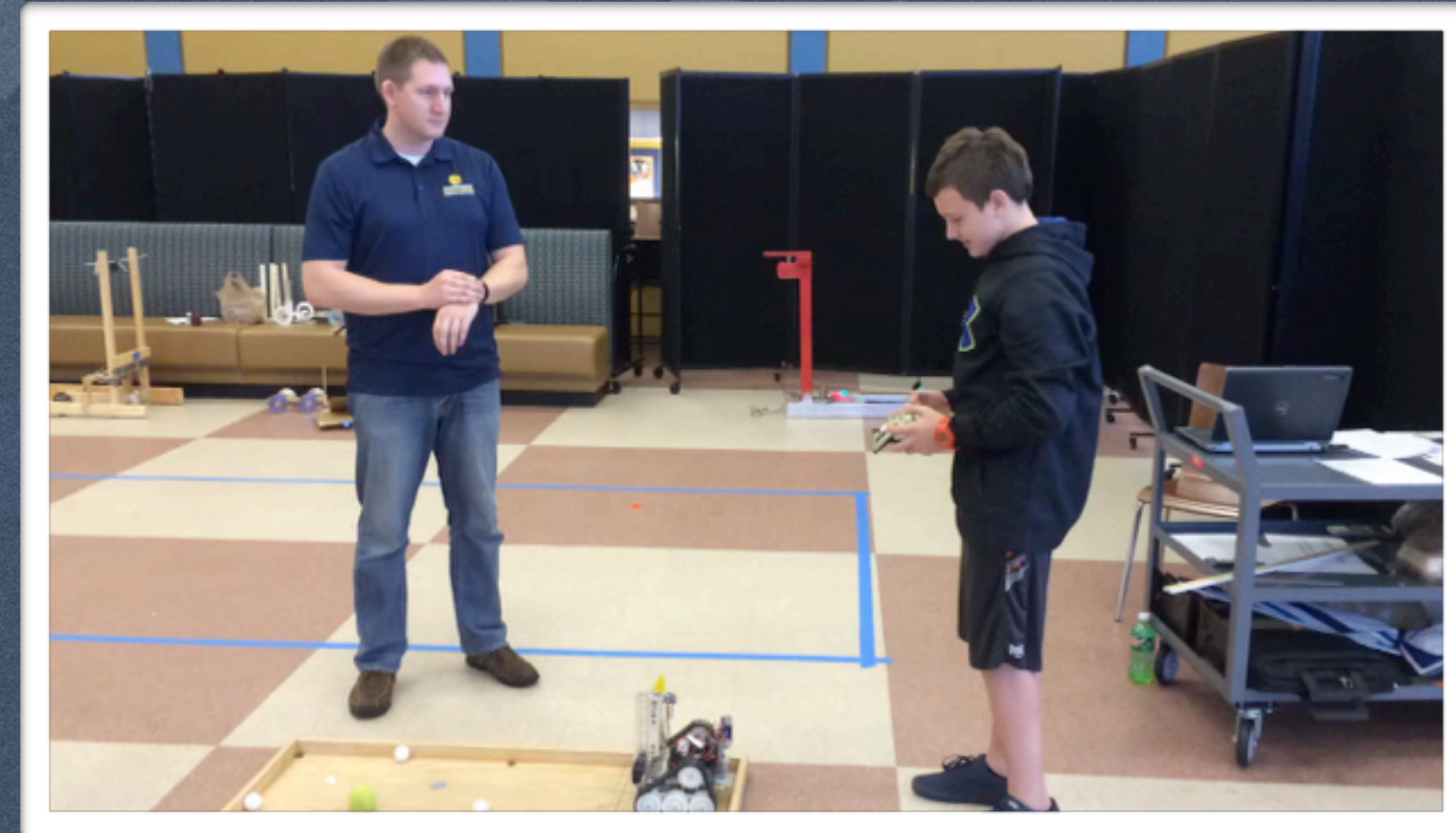
 Basic **coding** and **website development** skills

 Introduction to **3-D design and printing**



Project-Based Learning

-  **FIRST Lego Robotics (Host)**
-  **World Robot Olympiad**
-  **Science Olympiad**
-  **Energy Whiz Olympics**



Partners



Daytona State College



Embry Riddle Aeronautical University



Microflex



Lowes



SeaRay



Volusia Manufacturing Association (VMA)



LCP Machining



Northrup Grumman









Honeywell



Apple

Program Highlights . . .

-  Instruction is **self-paced and customized to the student**
-  Skills are sharpened through **project-based learning**
-  Competitions provide the students with **motivation, real-world opportunities for collaboration,** and **project scheduling**
-  7th and 8th grade classes can be added to create a pipeline for students wanting to explore the I³ Program at FPC
-  **Flexible scheduling** allows students and teachers to get more time for instruction and practice
-  Students will feel like they are attending a **small community school** with all the benefits of a large school facility

Flagler County

STEM Academy

