S.T.E.M.

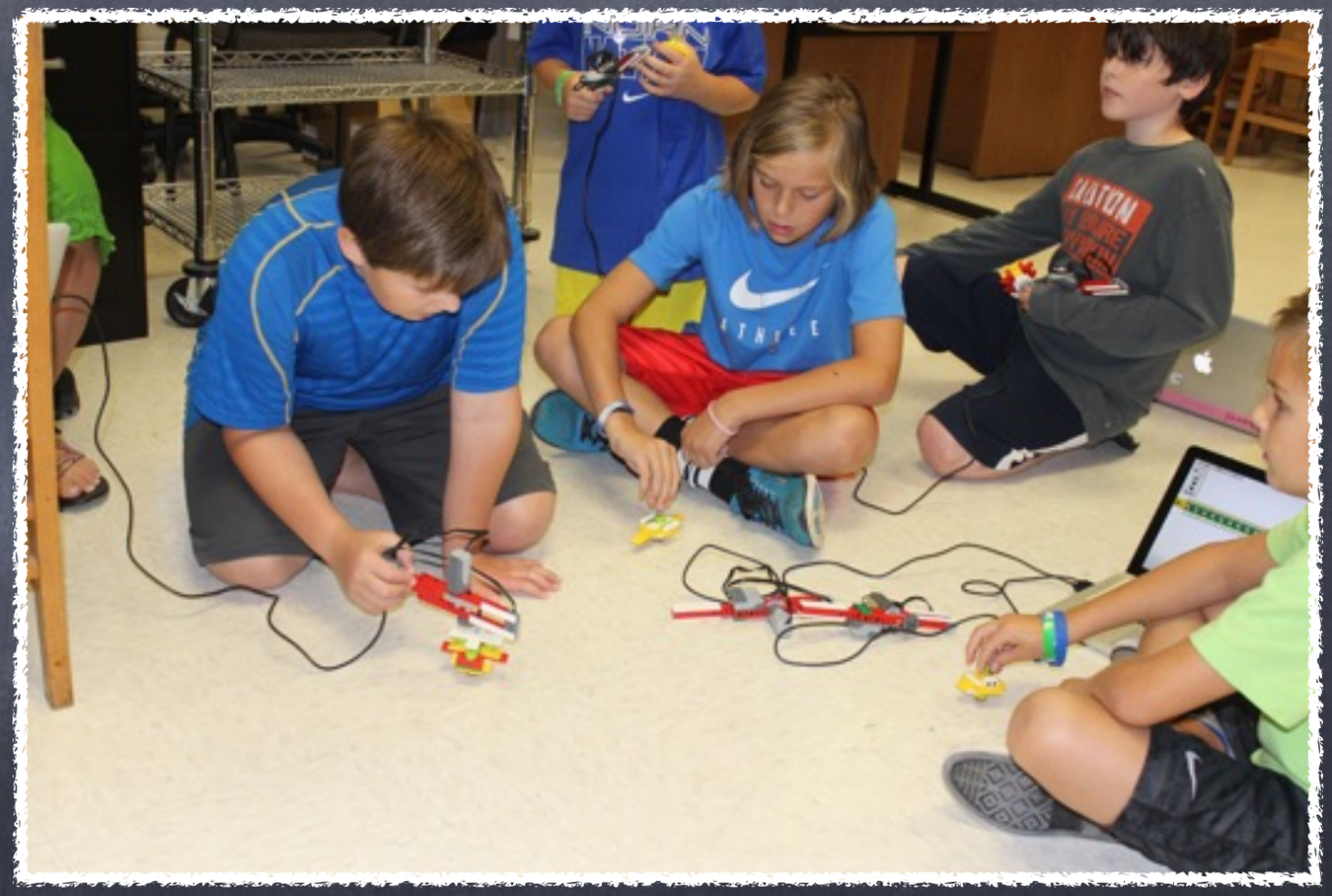
Science, Technology, Engineering, Math

"Today's Classroom is Tomorrow's Future"

STEM is a culture-
not a class
for all teachers, for all kids.

STEM is...

- engaging technology
- interactive
- cross-curricular
- creative
- social & collaborative
- problem-solving



STEM is the Why-
not the What.
When you know Why,
your What has more
Impact!

STEM

A platform for students to show what they know by creating a product.

S.T.E.A.M.

We will continue to integrate the ARTS in all of our curriculum. It not only modernizes STEM, it actually addresses real-world projects.

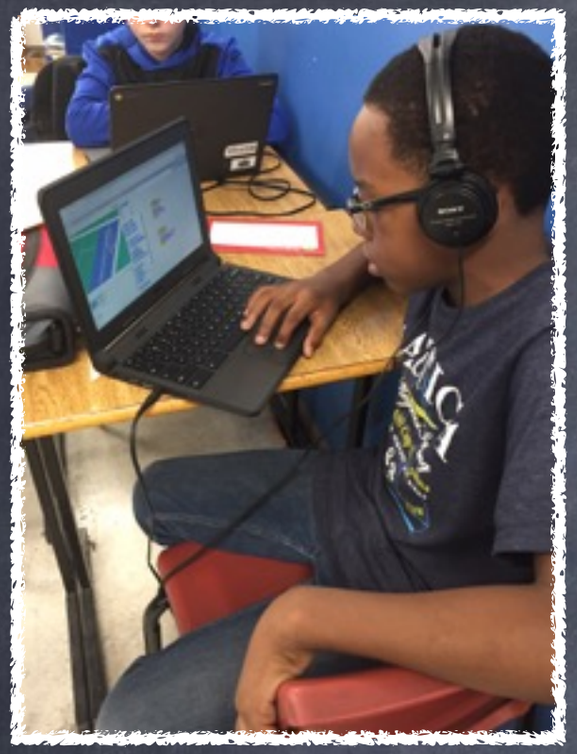
That's how we should learn!

Current STEM Initiatives

Lego Robotics

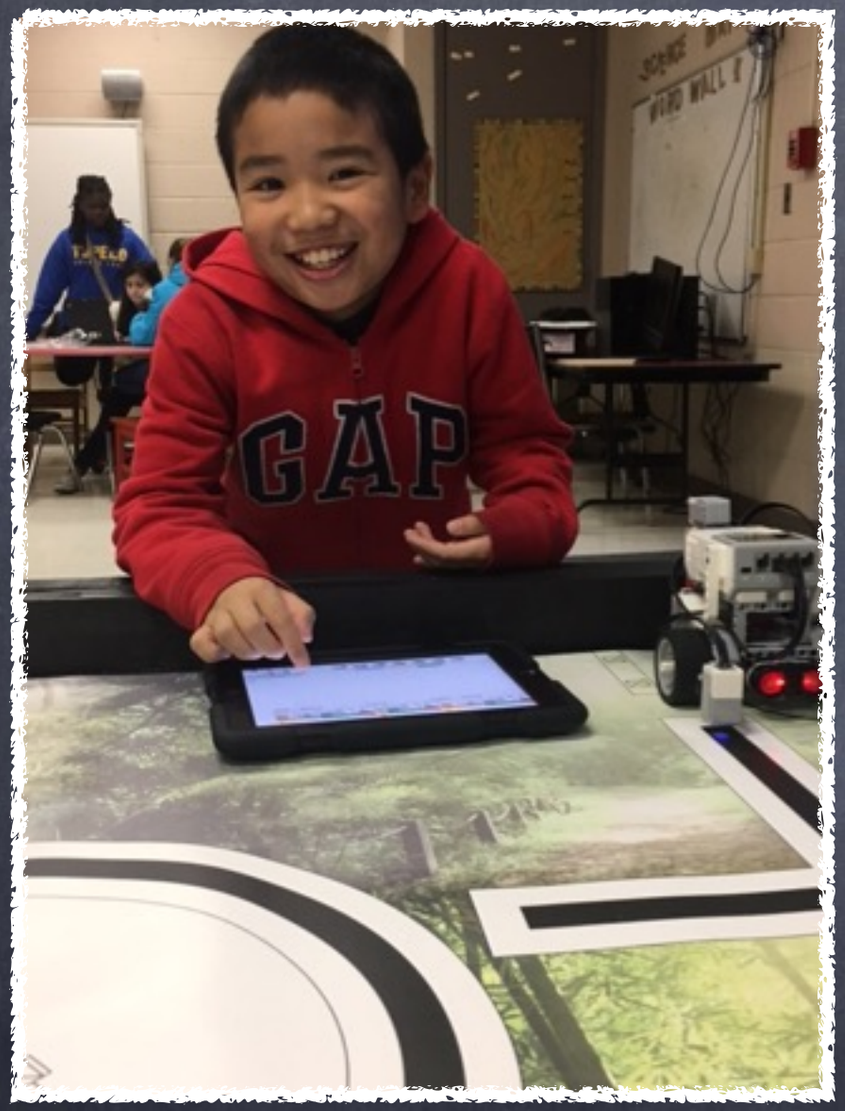
- Highly motivating, highly engaging with particular value in the four STEM subject areas
- Hands on learning
- Collaborative learning
- Authentic learning
- Project-based learning
- Problem-based learning

Google CS First



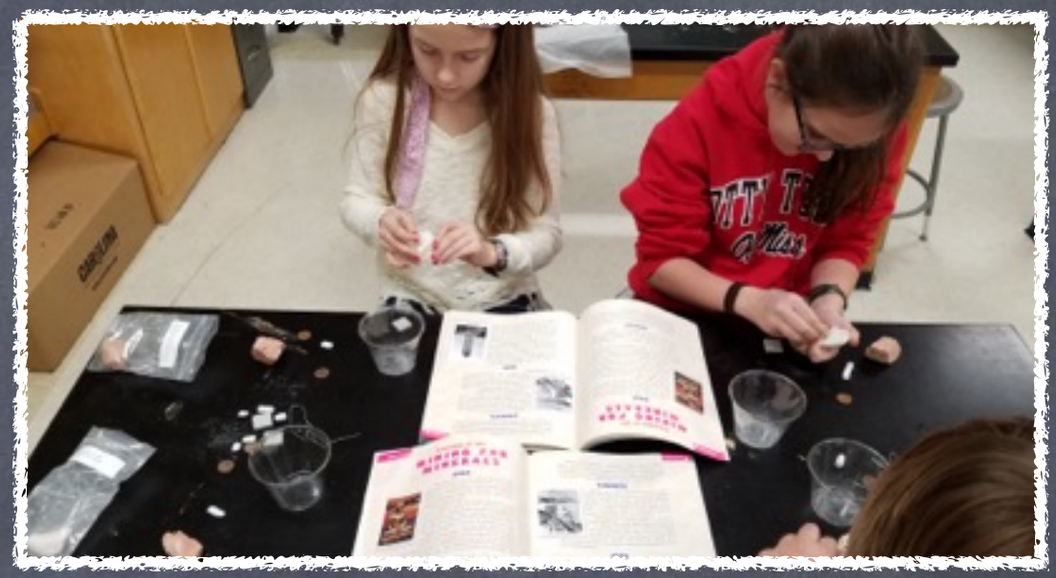
- Google CS First is a curriculum used to introduce students to coding (computer programming) using Scratch (a program developed by MIT).
- The CS-First lessons include group instructions, but we are using the videos for self-paced coding instruction.
- Students complete coding challenges to learn the basics of coding and share their work.

After School Clubs



FOSS KITS

Integrates robust reading and literacy strategies.



Engages all students with meaningful active learning experiences.

Utilizes technology to deliver learning experiences and provide teachers with time-saving classroom management resources.

Prepares all students to succeed with the NGSS performance expectations.

Future STEM Initiatives

- Professional Development at the May Institute
- Embed in curriculum this summer
- Implementation of a 9-12 STEM software program
- Continuation of previous STEM activities

Next Steps

- Dr. Lowder from ICC- Feb. 22
- THS Leadership Team Review
- Refine classes at TMS & THS

Continued Partnerships

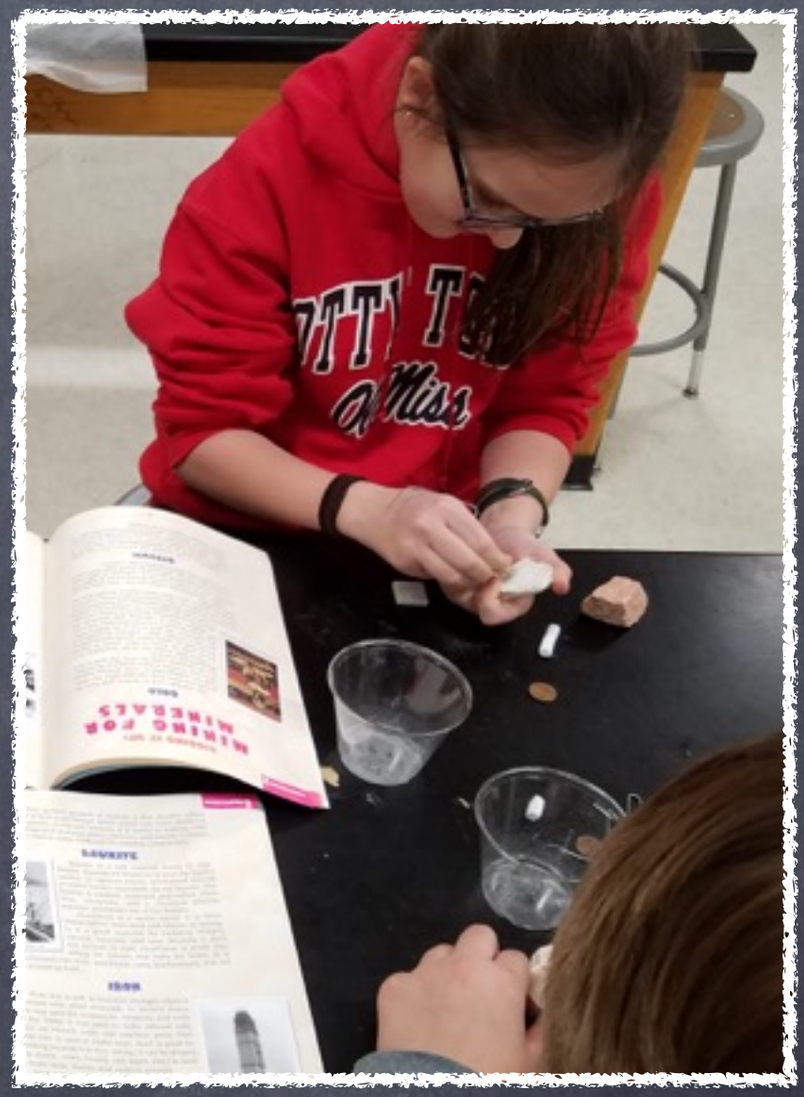
ICC- Dr. Joe Lowder- Feb. 22

CDF- Gina Black-Workforce development, incorporating speakers from businesses into the classroom

Toyota Wellspring- funding for FOSS Kits

NATIONAL
MATH + SCIENCE
INITIATIVE

The U.S. needs 1 million more STEM professionals over the next decade than it is projected to produce at the current rate.

@NMSI

Questions