STEMscopes overview

School Committee meeting
February 27, 2019

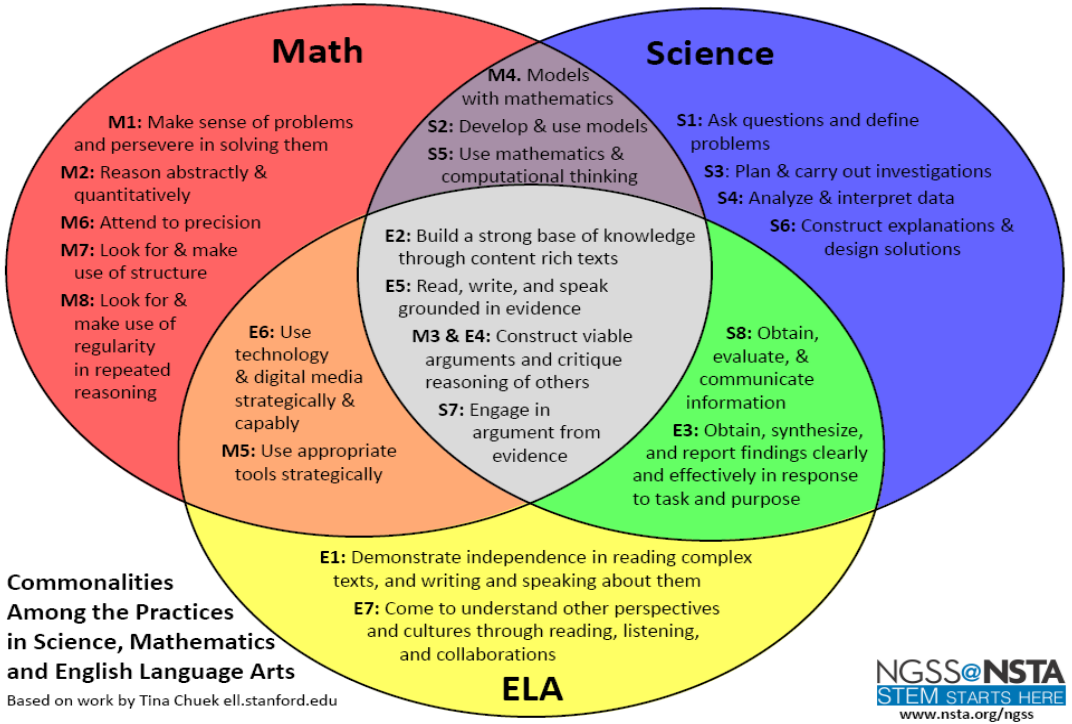
Our K-8 science and engineering curriculum

Elementary

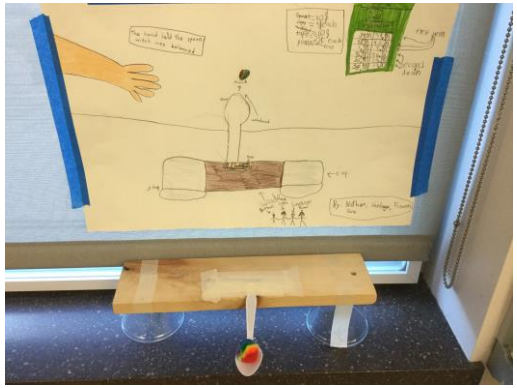
- Curriculum map based on STEMscopes

Middle school

- Curriculum map and units developed internally
- Incorporated a variety of resources including STEMscopes



STEMscopes



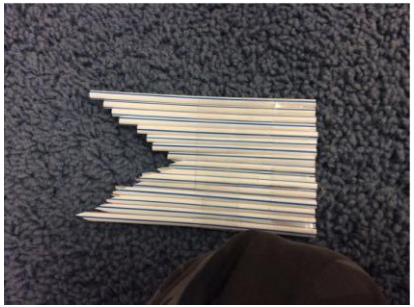
Supports students and teachers with structures for...

- Inquiry: exploration through engaging and open-ended learning experiences to build conceptual understanding
- Literacy: reading and writing to solidify ideas developed through exploration
- Social-emotional learning: learning through collaboration and discussion with peers; developing problem-solving and self-monitoring skills
- Cultural-responsiveness: learning that begins with what students know; all students have ideas to contribute

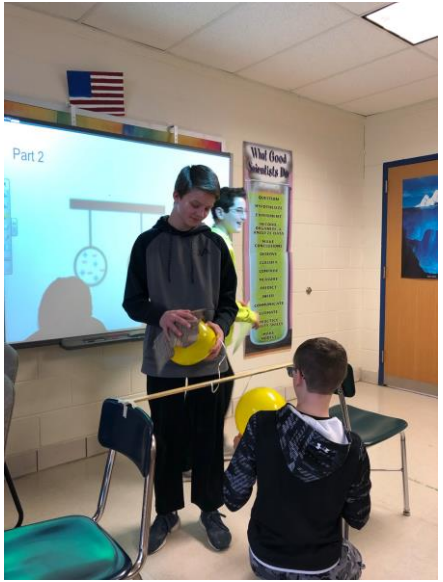
STEMscopes in practice

- Grade 1 sound






- Grade 8 forces



Science and Engineering at Nashoba

Expected Outcomes

- Deep learning of science and engineering concepts
- Greater resilience in solving problems
- Increased interest in science and engineering
- Broader development of lifelong skills related to collaboration, communication, social-emotional learning and literacy