Pierce Middle School

Enhancing STEM Experiences for Students

*Milton Public Schools*

February 26, 2015
Goals of the Grant

- Enhance the Lego Mindstorms EV3 Curriculum Pack by developing a Mars Rover Design Challenge Unit for 7th Grade Students.
- Partner with the Christa McAuliffe Center for professional development for teachers and curriculum design support.
- Build a STEM education bridge between middle and elementary schools by having middle school students produce and share design engineering videos.
Grade 8 Science Technology/Engineering MCAS scores at the Pierce Middle School are not “on par” with scores in Mathematics and English Language Arts.

In particular, students are not performing well in the Technology/Engineering strand.

There is a need to provide a content-rich context within which students can apply design engineering principles.
What are we doing?

- Partnering with the Christa McAuliffe Center in Framingham to revise/enhance LEGO Mindstorms materials and to provide professional development for teachers.

- Working collaboratively with teachers to create a science content-rich engineering experience (Mars Rover Design Challenge), which will become part of our STEM offering at the Pierce Middle School.

- Sharing our expertise and student learning with elementary teachers and students to further the district’s goal of a STEM pathway K–12.