

STEAM

Science, Technology, Engineering,
Arts, Mathematics

Cambrian School District

December 3, 2013



STEAM Curriculum

- Integrated
- Experiential
- 21st Century Skills
 - Critical Thinking
 - Collaboration
 - Communication
 - Creativity



Hands-on, minds-on work with real **engineering practices** promotes the invaluable **21st-century skills** of critical thinking, collaboration, communication, and creativity.

Innovative
Problem Solving

Supported by
Research

Cross-Curricular
Integration

Highly
Engaging

Engineering is Elementary increases students' interest in and confidence about engineering. EiE's 20 units present fun, engaging engineering challenges that allow students to apply science knowledge. We put the "E" in STEM education.



Fun, challenging activities increase student **interest** and participation. Students discover new **fascination** with engineering and technology.

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EiE Integrates With Other Subject Areas

Literacy

Each EiE unit begins with a storybook. The corresponding lesson includes comprehension questions, vocabulary handouts, and opportunities for students to practice their writing skills.

Social Studies

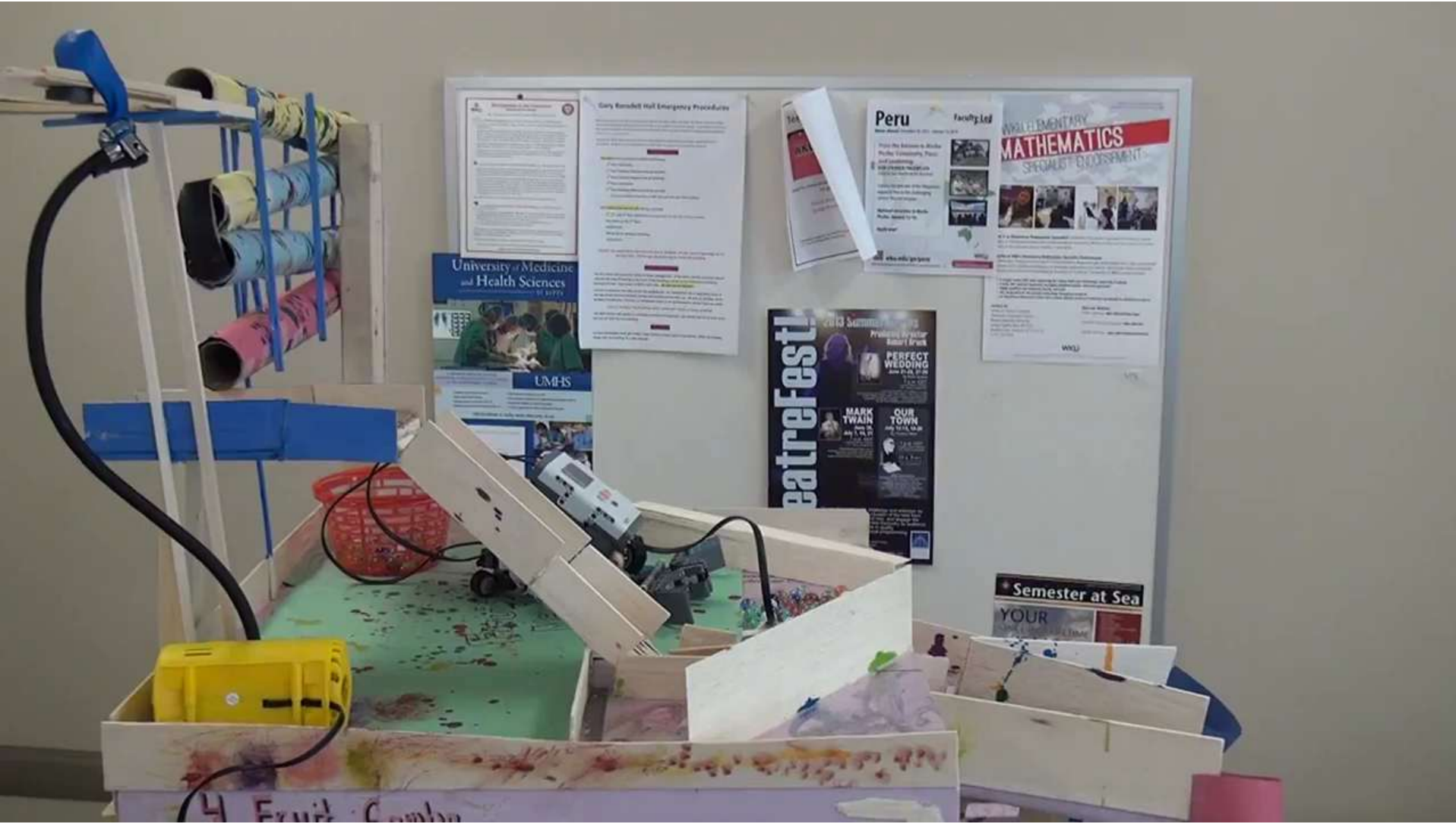
EiE storybooks are set in different countries around the world, featuring children of different ethnic backgrounds. Connections are made to geography, as well as the local culture and language of the book's setting.

Mathematics

As students collect data and work through their engineering design challenge, they utilize mathematical skills and concepts. In addition, **EiE Content Connections** include lessons that explicitly connect every EiE unit to the Common Core Mathematics Standards.



<http://steamlabs.asu.edu/?q=home>



STEAM Classrooms

MAKERS LABS



Flexible Learning Environments



Imagine the Possibilities

