

Science

Fiber Optics

Students are challenged to “hit” a target hidden behind a barrier using a laser, mirrors and the property of reflection. Once completed, they use a fiber optic cable to transmit the laser. The activity exposes students to the concepts behind FIOS.

This and other design challenges, connected to the NJLS and NGSS, are available for your classes. Please contact your school's STEM Specialist.

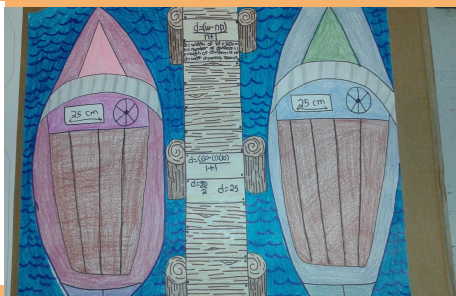


Step Into

STEM



Science • Technology • Engineering • Math



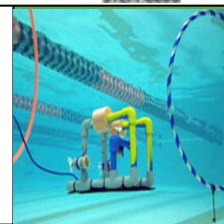
Little Bits Student Sets

Little Bits Student Sets have been ordered for the middle schools. These sets can be used for easy circuit building or in depth invention purposes. Additional uses include constructing a security device and creating a chain reaction contraption.

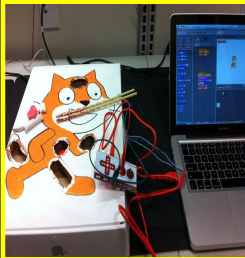


STEM Club

The Sea Perch teams competed in the underwater robotics challenge on Saturday, March 25th. The students maneuvered through an obstacle course and manipulated polypropylene rings and PVC cubes to hang on a ledge. Great job by all!



MaKey, MaKey Operation Game



Students work in groups to design an operation game using a shoebox, aluminum foil, a MaKey, MaKey kit and Scratch Project Editor. Creativity, cooperation and programming skills are utilized to add a new twist to the classic game of operation.

Engineering Resources Spotlight

Bloomsburg University - STEM Resources for Teachers

<http://www.bloomu.edu/stem-resources?scrybrkr>

Environmental Restoration - Grasses in Classes

<http://www.littoralsociety.org/grasses-in-classes.html>

Tinker Crate- Hands on Experiments

<http://www.tinker.kiwicrate.com>



Mathematics

DESMOS

The on-line Central Park activity uses variable and expressions to create parking spaces (or boat slips). After completing the online activity, students apply the concepts and create their own poster-size lots.

Middle School STEM Specialists

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