

Science

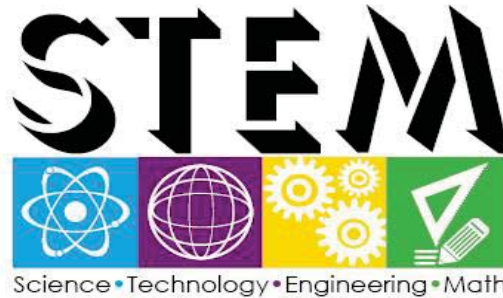
Rube Goldberg Machine

Students are challenged to design and build a Rube Goldberg mechanism out of five simple machines with the goal of popping a balloon. These machines demonstrate the transfer of potential to kinetic energy.

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



Step Into



Thank an Eagle Scout!

For his community service project, former Bayshore student Sean Doyle built and donated a working replica of the obstacle course to be used by students for practice in the SeaPerch competition. Congratulations and THANK YOU Sean!



STEM Club



The Sea Perch teams are busy building their underwater Rovers. They are assembling the frame, waxing the motors and soldering the circuit boards. The groups will begin testing their designs at the Red Bank YMCA in early February. Additional activities taking place in STEM club include MaKeyMaKey, Rubik's Cubes, Mbots, Tinkercad and several design challenge options.

Silverscreen: "Hidden Figures"

A PG STEM movie: Based on a true story, a team of African-American women provide NASA with important mathematical data needed to launch the program's first successful space missions.



Engineering Resources Spotlight

40 Different Engineering Degrees:
<http://typesofengineeringdegrees.org/>

Tinkercad 3D Design:
<https://www.tinkercad.com/>



Mathematics

HEAVY HELICOPTERS

Students build a paper helicopter and time it's descent from a constant height with varying number of paperclips. Students plot the data, generate a line of best fit and calculate both the slope and the Y - intercept. Students re-test their helicopters with 2 paper clips and determine the percent error of their data.

Middle School STEM Specialists

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