

Science

Solar Ovens

Students use a variety of simple materials, including a pizza box, to construct an "oven" that can capture the thermal energy from the sun. This thermal energy is used to heat up the ingredients of a S'More, so students can see the thermal energy in action. Students use temperature probes connected to their chromebooks to graph this increase in temperature.



Design challenges, connected to the NJSLs are available for your classes. Please contact your school's STEM Specialist.



Step
Into

STEM



Science • Technology • Engineering • Math

STEM Club

With only 2 months left until the SeaPerch Competition at Rowan University, our teams at all 3 middle schools are hard at work completing their underwater rovers. The competition date is Saturday, March 24, 2018.



Makers Day is March 10th!

The 4th annual New Jersey Makers Day is Saturday, March 10, 2018. Our own Middletown Public Library will be hosting events throughout the day. See the library's website for the schedule of events.
<http://www.mtpl.org>



LEGO WeDo 2.0

We are excited to be working with the new LEGO wedo 2.0 kits. Students will be using them to make connections between the virtual world and real world by using the LEGO sensors and writing their own code using Scratch.



Engineering Resources Spotlight

<https://www.edutopia.org/article/STEM-resources-downloads>

<https://www.stemfinity.com/Free-STEM-Education-Resources>

<https://www.exploratorium.edu/>



Mathematics

If Bones Could Talk

Students use actual measurements of their own femur, tibia, radius and humerus bones to determine if any of these bones are a good predictor of their height. Students use their data to calculate a series of linear equations, then compare their answers to their actual height. Which bone is a good predictor of height?



Middle School STEM Specialists

Bayshore
Jason Clarkson
X 2610

Thompson
Jeanette VanFechtman
X 8776

Thorne
Kristen Parry
X 7741