

# Science

## Solar Stills Design Challenge

Students design and build a still to clean “dirty water”. Using a survival skill theme, students transform lunch trash materials into working stills powered by the sun to produce “clean, drinkable” water.

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

# STEM



Science • Technology • Engineering • Math

Google



Go places a school bus can't

# Mathematics

## Lifeguard Stand

Students are introduced to engineering by building a lifeguard stand designed to hold a “lifeguard” for set amount of time. They work together to create the stand out of index cards and practice metric to English conversions.

## Middle School STEM Specialists

Bayshore  
JoAnn Layton  
X 2610

Thompson  
Jeanette van Fechtmann  
X 8776

Thorne  
Kristen Parry  
X 7785



## Family Engineering Night

This year the district is hosting three Family Engineering Nights in late October / early November. In addition to experiencing virtual reality through a *Google Cardboard* demonstration, a zip line challenge, a tower building challenge, and a circuit challenge are included each evening.

## Google Expeditions



Oh the places we'll go--the things we'll see! Bring your students to the moon, to Mount Everest, to the Grand Canyon, to the Museum of Natural History, to the Great Barrier Reef, or to the jungles of Borneo--without leaving your classroom! Lesson plans are being developed to use *Google Expeditions* in your classes!

## STEM Club

The middle school STEM clubs this year will consist of one or more competition teams as well as non-competition groups who will participate in a variety of STEM activities throughout the year including *MaKey*, *MaKey* and *Tinkercad*.

The *SeaPerch* underwater robotics competition teams will be competing again this spring at Rowan University. The date is Saturday, March 25, 2017.

## Engineering Resources Spotlight

The Drawing Process of  
Engineering:

<http://encyclopedia2.thefreedictionary.com/Engineering+drawing>

Encouraging Creativity and  
Inventions in the Classroom:

<https://newlearningtimes.com/cms/article/1917>

