

# SPLISH NEWS

Massachusetts Academy of Math and Science  
at WPI

## What is Splish?

Every April vacation week, Worcester area middle school students flock to the Massachusetts Academy of Math and Science at WPI to experience *Splish*: an exciting day of hands-on, minds-on learning. Student participants choose from 24 engaging workshops that span a wide variety of topics. Each workshop is designed and delivered by Mass Academy high school students under the guidance of Academy faculty.

## Build Your Own VEX Robot!

Guests got hands-on experience with robotics by building VEX robots.



## Bottling the Sky

Guests learned about the water cycle and to create their own miniature tornadoes using glitter and soap.



## Designing a Rube Goldberg Machine

Students were challenged to create their own Rube Goldberg machines with a select amount of materials.



## Java Fun with Jeroo!

Students had fun and learned some of the fundamental concepts of object-oriented programming with Jeroo.

## Quotes

“My favorite thing was Cake Decorating because of all the cool designs I got to make.” - Lia R.

“Improv was my favorite because of all the cool games we played.” - Luka

“I’m really glad I got to do VEX because of all the hands-on stuff.” - Alex

“My favorite was bottling the sky!” - Addison

“That’s so cool!” - Jack

## MathCounts Countdown

After being presented with math problems, students were taught new ways to solve them.

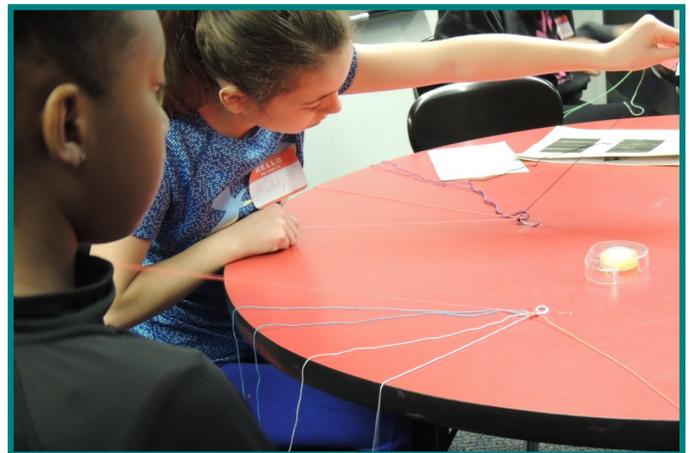


## On a Dark and Stormy Night...

Guests got to express their creativity by working collaboratively on stories and sharing them with the class.

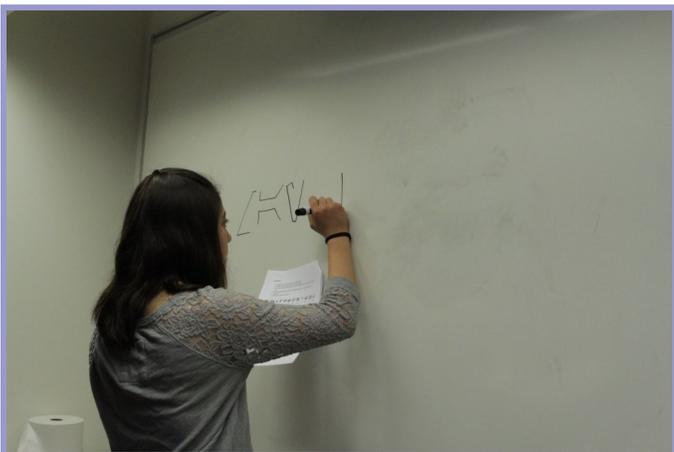
## Building Bracelets

Students learned new bracelet-making techniques such as color coordinating, knot-making, and using embroidery floss.



## Fantasy Languages

Participants learned the alphabets of Aurebesh, a language from Star Wars, and of the Dwarven Runes from Lord of the Rings.



## Improv Games

Guests participated in a number of improv games like Sound and Emotion, Party Quirks, Questions Only, and Freeze.



## Card Trick Central

Students learned card tricks such as the double lift, the Marlow tilt, and the Erdnase Color change.



## Cupcake Decorating

Students learned the art of cupcake decorating and got to take home their delicious creations.



## Fun with Polymers!

Participants got to use polymers to make their own fake snow and colored slime!



## The Art of Illusions

After learning about optical illusions and how they are created, participants got to make their own.



## Super Secret Ciphers

Participants learned about cryptography and decoded messages that were under three layers of encryption.

### Origami Polyhedra

Participants used math concepts to learn about the ancient art of Origami.

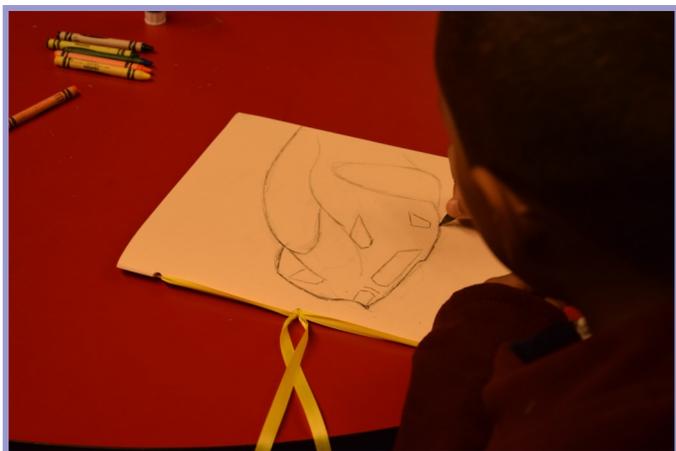


### Silent Singing

After learning how to sign their own name, guests learned how to sing a song in ASL.

### Sketchbook Making

Participants learnt how to make and bind their own sketchbook, then got to draw inside of it!



### Make Your Dream(catcher) Come True!

Students used wires and beads to make their own dreamcatchers.

### Build Your Own Rollercoaster

Students learned some of the physics behind rollercoasters and got to design their own.



### Forensic Fun

Participants learned about crime scene investigation procedures and got to take their own fingerprints.