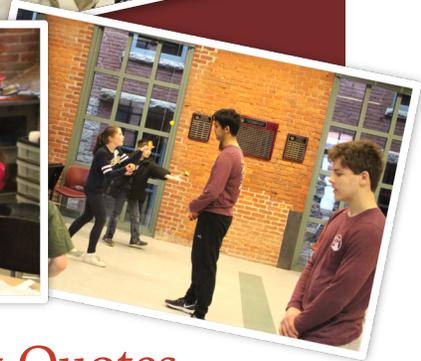




Splish 2019

Massachusetts Academy of Math and Science



What is Splish?

Splish is an annual once-in-a-lifetime opportunity for hands-on, interactive learning. Hosted by the Massachusetts Academy of Math and Science every April vacation, the event attracts middle school students from all around Worcester county for a day of fun and learning. The program consists of 24 engaging workshops lead by Mass Academy juniors, along with guidance of Academy faculty.

Student Quotes

“It seemed really interesting and I’ve never done it before” - Will

“I would totally come back next year.” -Gabriel

“No one gets left behind.” -Trisha

“You can choose what you want to do. Different activities for different people. People are friendly.” -Jessica



Making Pop-Up Cards

Participants got the chance to learn how to make their very own handcrafted, 3D pop-up cards.

Workshops



The Stories in the Stars

Students were taught the fascinating mythology of various civilizations surrounding the world beyond the skies.

Music Loop

Guests were given the opportunity to explore professional electronic music development.

Mental Math

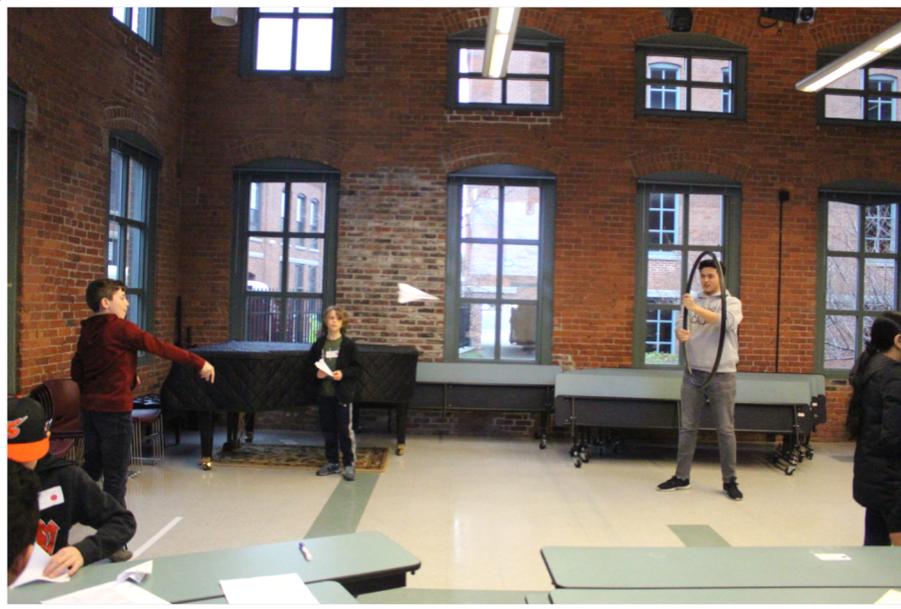
Participants were shown basic algebra tricks to performing mental math more efficiently.



How do infectious diseases spread?

Students were educated about infectious diseases with an introduction to rudimentary epidemiology.





Winging It: Fun with Paper Airplanes

This exciting workshop brought back the nostalgic childhood fun of paper airplanes with an in-depth explanation of how wing shape affects flight, followed by engaging competitions.



Rubik's Cube

The students were taught the most prevalent method of solving Rubik's cubes, step by step.

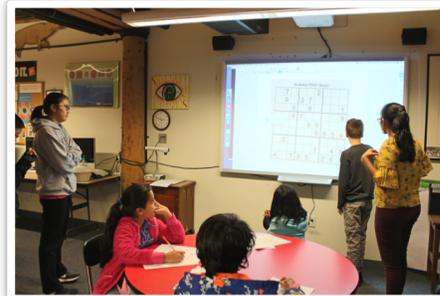
Cool Cards

The guests were introduced to several simple card tricks and how to use them in a coherent magic performance.



Sudoku

The participants were guided through the popular puzzle game, Sudoku. They were taught multiple strategies to the game.



Special Relativity and Time Dilation

In this workshop, the students dove into the complex realm of modern physics and relativity.

Creative Writing

The students were shown the limitless creativity that writing allows, and how that creativity can be used collaboratively in group writing.





Portrait Drawing

The students were taught the basics of portraiture and how to draw a face realistically.



Friendship Bracelets

Participants made their own friendship bracelets after given a short introduction on pattern reading and knots.



Thrilling Thermodynamics

Students were taught the science behind thermometers, and made their own thermometers.



Solving Problems with 3D Modeling

This workshop introduced students to the applications of 3D modeling to real-world problems using the software TinkerCad.

Racing Rubber Band Powered Cars

In this hands-on workshop, the participants designed, constructed, and raced rubber band powered cars in groups.



Countdown Round

Students faced off in a friendly trivia competition, Family Feud style.

Juggling

Participants were taught how to juggle with three balls.





Strawberry DNA Extraction

Students were immersed into a professional lab environment and taught how to extract the DNA of strawberries.

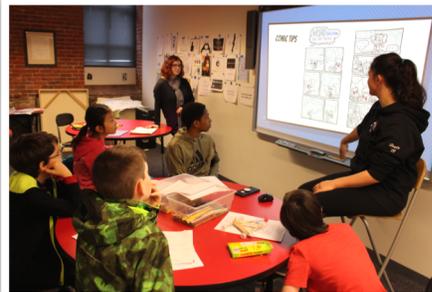


Duct Tape Crafting

This workshop taught the students how to make common objects like wallets and flowers out of just duct tape.

Origami

In this workshop, students were taught how to fold paper into magnificent 3D objects.



Creative Comics

Participants were taught how to write comic strips and how to come up with ideas for them.



How to land on the Moon

Students used the engineering process to build a space shuttle that can land successfully without ejecting its contents.

Parseltongue: Learn to Code in Python

With the growing computer science industry, this workshop gives the perfect introduction to one of the most popular coding languages today: python.

