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# SPLISH NEWS

## Massachusetts Academy of Math and Science

## What is SPLISH?

### DNA Extraction: Extracting the Ladder of Life



Students learned about the function of DNA and how it causes organisms to be unique. They then extracted DNA from a banana.

### Racing Lego Robots: Maze Time Trial



The students modified LEGO Mindstorms robots to navigate through a constructed maze in the shortest time possible.

Every year, students in the Metrowest area come to SPLISH, a program of 24 engaging activities conducted by students at the Mass Academy of Math and Science. Check out what the students did today!

### Plane Fun: How to Make a Perfect Paper Airplane



Students made paper airplanes from a single sheet of printer paper and competed in several competitions.

### Lunar Landers



The students engineered lunar landers following a strict budget, with the goal of keeping cargo safe.

### Building a House of Cards



The students learned how to make card houses, and they played a Jenga – style competition.

### Mason Jar Creations



Students decorated mason jars using mod podge and tissue paper (They made tissue paper flowers with pipe cleaners and tissue paper).

## Fruit DNA Extraction

Students learned how to work in a lab setting by extracting DNA from a kiwi.



## Learn to Fence

Students learned about the sport of modern fencing and played fencing related games using pool noodles.



## Balancing Act

The students made torque mobiles using pipe cleaners, wooden dowels, and other everyday items.



## An Intro to Chess

The students learned many types of chess strategies and played a few rounds with a partner.



## Acting Out: Drama Games

Students learned about warm-up skills and made scenes out of famous movies quotes and played various improv games such as "Where is my Cat?" and "Hitchhiker."



## Fold with Fun

Students learned how to fold paper and make origami. They made balloons, cranes, flowers, ninja stars, and so much more!



### Let's Dance!

The students stretched and learned choreography to popular songs. They also learned how to count beats in music.



### Fun with Drones

The kids learned the basics of drone technology and then controlled them and watched them fly!



### Can You Build This?

Students competed against one another to build a bridge using a single sheet of computer paper to hold as many pennies as possible.



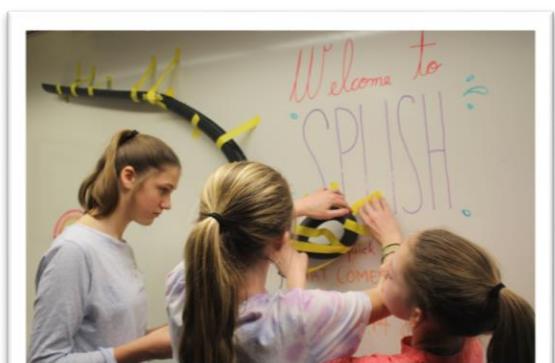
### Eye Can't Believe It! Drawing 3D Optical Illusions

Kids learned how to draw 3D objects and optical illusions. They learned about perspective and horizon drawings, and they made a flipbook!



### Build Your Own Rollercoaster!

Students learned about potential and kinetic energy, and applied these concepts to build marble roller-coasters using foam tubes and tape.



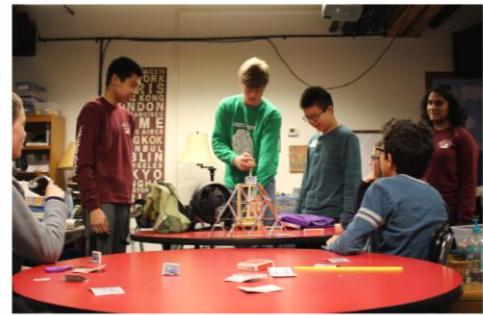
### Cat's Cradle Tricks

The students intertwined multi colored strings to play cat's cradle and learned other string tricks.



**Watchtower Build-Off**

Students made watchtowers of cards and tape in an epic build off with an equally great finale to see who made the best tower!

**Junkyard Jams**

The students learned about the physics behind sound. They also made instruments from everyday objects.

**Be the Next Bob Ross:  
Intro to Watercolor  
Painting**

Students in the course created their own masterpieces using the fundamental concepts of water-coloring.

**Explore Your Curiosity: Design a Mars Rover**

Students learned about rovers and robotics and then the kids learned the engineering design process to make rubber band powered rovers in an obstacle course.

**Balloon Cars**

The students learned about the principles of air pressure and kinetic energy. Cars were constructed with balloons to be the fastest or longest – running.

**Crime Scene Chemistry**

Students used chemistry and forensic analysis to identify ingredients found in a cake to solve a crime.

