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).

What is SPLISH?

WWW.MASSACADEMY.ORG
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.

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.

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!

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.