



# Magruder Aviation Newsletter

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## Aviation Expo Success

On November 1st, 48 sophomores from the Aviation Program attended the Aviation Education and Career Expo at Leesburg Executive Airport in Virginia. The goal of the expo was to expose students to a variety of career and educational opportunities within the field of Aviation. Students listened to exciting guest speakers, as well as visited with college reps, industry leaders and vendors. The day long expo was capped off with two of our students being awarded \$4500 in scholarships to help them fund flight school.



Congrats to our scholarship winners!

## Aberdeen Proving Grounds

Our ninth grade students recently visited Aberdeen Proving Grounds to tour the Weide Army Heliport. The heliport is an active military aerodrome, and it is home to several rotary wing and support units from the Maryland Army National Guard. Students learned about the Blackhawk, Chinook, and Lakota Helicopters. Students then learned about maintaining the helicopters. Students were able to interact with a variety of personnel in both the hanger and the maintenance shop, and learn firsthand about their roles in keeping the fleet flying.



## Upcoming Events

American Airlines Cadet Academy visits sophomores	12/4
Mechanics Panel Discussion	12/16
UAS experts Panel Discussion	12/18

## Ways to Support Us

- Be a guest speaker at a panel discussion or connect us to guest speakers.
- Help connect our students to internships
- Provide extension of classroom learning experiences (i.e site visits or hands on experiences).
- Follow us on Twitter @MagruderAviati1 and like or retweet our successes.
- Purchase Aviation Apparel and swag at <https://apparelnow.com/magruder-aviation-program-apparel>

## Special Thanks to:

- Mr. Mark Mhley, Ms. Laurie Boyer and Mr. Bob Gawler for participating in our Aviator Panel Discussion.
- LTC David Paolucci and his staff at Aberdeen for hosting our extension of the classroom experience visit.

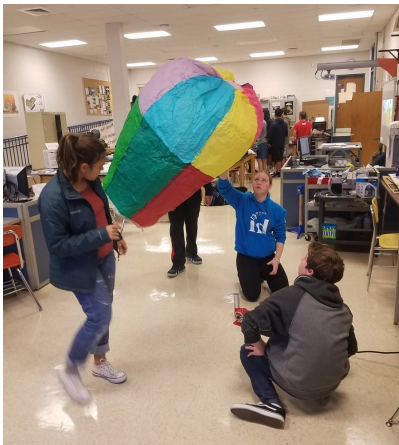
## Panel Discussions

Panel Discussions are a key feature of the Aviation Program. Our students really enjoy hearing first hand accounts from professionals within the industry. In October, our freshman participated in their first panel discussion, which focused on Aviators. A former commercial airline pilot, a private flight instructor and a Naval Flight Officer participated. They answered questions about their training, education and experiences, and challenged our students to think about the possibilities upon completion of this program. More discussions are scheduled focusing on other career possibilities later in the year. Some careers that students will be exposed to include aviation mechanics, UAS operators, engineers, and helicopter pilots. If you would like to participate, or have ideas for other panel discussions, please contact Catherine\_P\_Marzen@mcpsmd.org



## In the Classroom Training our Instructors

Hands on learning is a key component of our program. Recently, our freshman designed and built hot air balloons based on DaVinci's sketches in order to better comprehend air density principles. Currently, they are adapting gliders to see the effects of changing different components to maximize distance and time of flight.



Our sophomores are learning about the Coanda effect. They have created flying devices, and are learning how air flows around a surface of an object to create lift.

## Building the Program

As our program grows, so does the need for technology for our students and a dedicated space within the building. Magruder will be converting two rooms into an aviation classroom and a simulator lab. The classroom will be equipped with a cart of new Dell laptops. The lab will house the simulators, which will provide students with a safe way to practice basic and advanced flying skills right here in the classroom.



In November, we sent two Aviation Program Instructors, Mr. Michael Smith and Mr. Alan Nelson, for training at the United Airlines AOPA High School Symposium in Denver, Colorado. The symposium was a one of a kind opportunity to help our teachers understand how to prepare students for a career in the aviation industry. It also allowed our instructors to spend two full days expanding their knowledge of the aviation industry. They attended break out sessions and listened to guest speakers. Additionally, they were able to network with other teachers from Aviation High Schools, meet with industry leaders, and learn about post secondary opportunities for our students.



*Dr. Evans flying our Redbird TD2 flight simulator.*

