
PATRIOT NEWSLETTER

George Washington High School

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Dear Readers,

We have made it into the 2nd nine weeks of STEM classes and we couldn't be more pleased. The purpose of this edition of our newsletter is to showcase our STEM program. Our students are learning and performing world-class workplace skills. They are working in groups, learning communication skills, and creating products that will prepare them for life in the 21st Century.

This newsletter will provide you with a snapshot of each class that is offered for our students. If you would like further information, or have questions, please feel free to reach out to us with the contact information listed above.

Warmest Regards,

Your GWHS STEM Team

STEM CLASSES

3D Printing: Students will explore 3-D printers and printing capabilities. They will then act as experts for 3D printers by producing commercials, newsletters, policy papers, etc.

Botanical Design: Students will learn the art of planning and designing aesthetically pleasing botanical arrangements for community areas.

Hydroponics: The students in this program will learn and develop skills to hydroponically grow and produce a wide array of fruits and vegetables that will be used to supply the school salad bar and the to-go salad program. Students will also gain skills in other types of growing applications.



UPCOMING EVENTS

NOVEMBER 17

Early Dismissal

NOVEMBER 20

Thanksgiving Break 20-24

NOVEMBER 27

Begin 3rd STEM Rotation

IMPORTANT ANNOUNCEMENT

Student's 2nd STEM Rotation will conclude on Friday, November 17, 2017. The 3rd STEM Rotation will begin on Monday, November 27, 2017.

Students will rotate to the next teacher, alphabetically, as designated on the class syllabus.

Digital & Technology Citizenship: Students will work both individually and collaboratively to learn about the many facets of digital citizenship and how this affects them on the Internet. Using technology and a variety of activities, students will become experienced, active and knowledgeable digital citizens.

Computer Programming: Students will get an introduction to computer science, starting from the very basics. Students will complete activities that will teach them how to think like a programmer and hopefully will eventually write their own code

Business and Marketing: Students will learn about the business and marketing side of STEM related fields.

Engineering of Music: Students will work collaboratively as music industry representatives and artists. They will produce original music using digital media and promotional materials to promote their song to industry representatives

Aeronautics: Students will begin the study of aeronautics by designing, testing, and building gliders. Students will then be introduced to drones. Students will learn how to operate a variety of drone types and will use drones to produce still and motion video using drone technology.

Maximizing Product Velocity & Efficiency: Students design cars, then manipulate various structures to improve the car's velocity. They also must take into account the cost of materials that are being used to maximize efficiency.

Exercise Science: Students will learn the importance of exercise and how it affects the body both physically and mentally.

Miniature Models: Students will plan, organize, and build a miniature model of a tiny house. Students will focus on team building using craft materials to assemble an aesthetically pleasing model that illustrates their vision of what they would like to build.



STEM ROOM

3D PRINTING

We currently have five 3D printers for students to learn designing and printing skills. You can see some of their work in the above picture. Each student had to design and print out a coffee cup with their initials on it. We've been pretty impressed by how quickly they are mastering their design skills.

They have also learned about the ability to print 3-dimensional prosthetics. We are working with the group e-NABLE to provide free 3D printed hands for children in need of an upper limb assistive device. You can read more about this open source community at the following link: <http://enablingthefuture.org/about/>

LASER CUTTER MACHINE

Students are learning how to use the machine and all of the possible materials to use with it. We are working toward having a school store where students will be selling items they have created with this machine and others in the STEM Room.

MORE IMPORTANT NEWS

ATTENDANCE

One of our workplace protocols that we are striving to instill in our students is punctual attendance. When we speak with employers about needs in the workplace, their number one concern is always punctual attendance. Please continue to encourage your child to be at school and be on time each and every day. The habits our students make now will lay the foundation for their future careers.