

## 2016 Summer STEAM Camp Information

Greensburg Salem School District is proud to offer a new 2-week summer STEAM camp for Greensburg Salem students currently in grades 6 through grade 9. What is STEAM? STEAM is a concept that integrates science, technology, engineering, arts and math into creative engaging hands-on activities. The focus of the camp will be to utilize fun activities for students to develop skills within STEAM areas and create connections with possible career interests and opportunities. It is never too early for students to begin thinking about future career choices. Student experiences, play an important role in the future career pathways decisions they make.

Students will rotate within all of the four activities planned during the Summer STEAM Camp throughout the two weeks. The camp will run M-TH for two weeks starting on June 13<sup>th</sup> and ending on June 23<sup>rd</sup>. Students will spend two days in each activity. Students will spend the morning session of each new activity day working with other team members at the Greensburg Salem Middle School. At the end of the morning session, students will be transported by bus to the Career and Technical Center in New Stanton or to a local business or industry related to the STEAM activities they will be completing to enhance career knowledge. On the second day of each activity, students will remain at the Middle School completing planned projects.

The camp will run from 8:30 AM to 3:30 PM each of the eight days. Students will be provided a lunch or they can choose to bring their own. Parents will need to provide transportation to and from the Middle School each day. Don't miss this exciting opportunity to have fun and learn through the numerous STEAM activities planned. Space is limited so commit early to reserve your child's spot. For questions please email to [arometo@wiu.k12.pa.us](mailto:arometo@wiu.k12.pa.us) or call at 724-832-2907.

This Summer STEAM Camp is provided in partnership between the Greensburg Salem School District and the Central Westmoreland Career and Technology Center in New Stanton. This program is partially funded through grants from the Alcoa Foundation and the Westmoreland County Workforce Investment Board. A student tuition fee of \$25 is required for each student. If you would like your child to participate but are financially unable, please contact Anita Rometo for scholarship opportunities.

### Camp Schedule:

Day 1 Monday AM:	Simple Machines & Picnic Sports
Day 1 Monday PM:	Manufacturing and Workplace Visit
Day 2 Tuesday:	Simple Machines & Picnic Sports (all day)
Day 3 Wednesday AM:	Coding Cadets
Day 3 Wednesday PM:	Manufacturing and Workplace Visit
Day 4 Thursday:	Coding Cadets (all day)
Day 5 Monday AM:	It's the Journey not Just the Destination
Day 5 Monday PM:	Manufacturing and Workplace Visit
Day 6 Tuesday:	It's the Journey not Just the Destination (all day)
Day 7 Wednesday AM:	Not Your Normal Petting Zoo
Day 7 Wednesday PM:	Manufacturing and Workplace Visit
Day 8 Thursday:	Not Your Normal Petting Zoo (all day)



### **Simple Machines & Picnic Sports**

We all enjoy a good picnic game. But wouldn't it be fun to replace the physical skills of those games with Science, Technology, Engineering and Mathematics? Campers will be challenged to design, fabricate, calibrate, and perfect a mechanical device that will play a popular picnic game. Games include (but are not limited to) Ladder Ball, Horseshoes and Corn Hole. At the conclusion of the summer camp, competitions will be held to determine the best designs.

Campers will apply design and problem solving skills, use tools and materials, and see firsthand how simple machines can be used to make complex tasks easier.

### **Coding Cadets**

Have you ever played video games? Do you enjoy creating on the computer? Would you like to be able to create computer models of buildings? What about creating your own video game?

All of these areas will be addressed in Coding Cadets. The first day will be manipulating in the world of Minecraft. Campers will learn the basics of Minecraft and be able to create mini projects. After the mini projects are completed, campers will use their new skills in Minecraft to create a scale computer model of their favorite building in downtown Pittsburgh or another favorite building.

The second day of Coding Cadets will focus on the computer program "Scratch". Students will again have mini-lessons in Scratch. Through these mini lessons students will learn the basics of computer coding in order to create a video game or application of their choice.

### **It's the Journey not Just the Destination**

Who doesn't dream of a perfect summer getaway? Most people love to imagine a worry-free escape from reality. However, for anyone who has ever gone on a vacation there are often high and low moments that become memorable parts of the journey.

In this session, campers will work collaboratively to design a vacation board game. They will brainstorm the location of their trip and the unexpected events that occur. They will research the tourist attractions specific to their chosen locale. The groups will design the game layout, the playing pieces, and the rules and mechanics for game operation.

To create their games, campers will incorporate vinyl cutting, photography, and 3D printing technology. All campers will leave with a copy of their destination game.

### **Not Your Normal Petting Zoo**

Bigfoot, zombies and Unicorns...Oh my!

Want to bring your favorite mythological creature to life? Campers will have the opportunity to create moving, talking creations that are controlled with simple programming.

Using Hummingbird Robotics kits and drag and drop software, campers will learn the engineering design process and simple programming skills. By diving into the artistic side of robotics, this course will require campers to bring their creations to life with recycled materials, craft supplies, LEDs, motors, sensors and a little imagination.

**Greensburg Salem School District**  
**Summer STEAM Registration Form**  
**Registrations Accepted 5/6/16 through 6/1/16**

Complete this form and have your child take the form and payment to their school office  
Complete one form for each child

**Payment**

Cash, Check, Money Orders, Major Credit Cards Accepted  
Check or Money Orders should be made out to Greensburg Salem School District  
Credit Card payments indicate below and you will be contacted for card information

~ Please Print ~

**Student Information:**

First Name	Last Name	Current Grade	School Building
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**Parent/Guardian Information:**

First Name	Last Name	Home Phone	Cell Phone
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Street	City	State	Zip
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**Emergency Contact Information:**

First Name	Last Name	Home Phone	Cell Phone	Relationship
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Street	City	State	Zip
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**Special Notes:**

List and special accommodations needed, disabilities, allergies, etc.

Check One: \$25 per student

Check or Money Order Enclosed       Cash Enclosed       Call Me to Bill Credit Card

I understand that my child will be working with tools and basic electronics equipment to complete STEAM camp projects. I also understand that my child will participate in some off site programs and be transported by First Student Inc. on Monday's and Wednesday's during the camp for manufacturing and workplace visits.

Date	Parent / Guardian Signature
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