



SUMMER STEM CAMP

Excite your middle school son or daughter with days filled with science and engineering activities. Your child will get hands on while learning about the engineering and science behind bridges, rockets, pneumatic potato cannons, and engineering computer design. All students entering 6th, 7th, 8th, or 9th grade in August 2017 are welcome to attend.

Week 1 - \$150 - Monday June 5th - Friday June 9th

Week 2 - \$130 - Monday June 12th - Thursday June 15th

The activities for weeks 1 and 2 will be the same, but students are still welcome to attend both weeks if they would like to.

Camp running time is 8:00 am - 2:00 pm. At 2:00 pm on the final day of each week will be the camp award ceremony.

Price includes a STEM Camp T-shirt and other camper designed souvenirs.

Campers will need to bring their own bag lunch each day of camp. A full refrigerator, freezer, and microwave are available for camper use.

Please contact Andrew Forsman, Engineering Academy Instructor, at

aforsman@pasco.k12.fl.us for a registration form or if you have any other questions.

Camper Activities for the Week

Monday

Physics of Projectiles - build water balloon launcher and perform calculations based upon balloon launch.

Model Rockets - instruction for the building of model rockets.

Tuesday

Rocket Launching - launch the rockets from Monday twice.

Bridge Building - build a bridge out of balsa wood.

3D CAD Modeling - learn how to use the 3D CAD modeling program Autodesk Inventor

Wednesday

Bridge Compressive Stress Testing - break the bridges from Tuesday to test for the compressive strength. Camper with the strongest bridge will receive an award.

Science of Flight - instruction and building of wooden gliders.

Science of Pneumatics - instruction and building of pneumatic produce cannons.

Thursday

Produce Cannon Competitions - campers will launch produce from cannons constructed on Wednesday in a series of various competitions. Awards will be issued for the winners of each of the competitions.

Glider Competitions - campers will enter their gliders built on Wednesday in a series of competitions. Awards will be issued for the winners of each of the competitions.

Computer Programming - campers will learn how to program a robot.

Friday

Produce Cannon Fun - campers will have fun launching produce with their produce cannons.

Program Autonomous Cars - campers will learn how to program radio controlled cars to perform autonomous robotic tasks.

3D CAD Modeling - campers will model a toy car using Autodesk Inventor.