

Parkland STEAM2 Academy
High School 2023
Summer Day Camp
June 12th to June 15th
(Monday-Thursday in person, No Friday)



What is STEAM²?

Education in Science, Technology, Engineering, Art, Mathematics and Medicine (STEAM²) is a national movement that Parkland identifies as an integral part of our educational process to prepare students in an increasingly global economy.

What is the purpose of this Education?

- Allows Students the best opportunity to make sense of the skills needed as a whole rather than in bits and pieces.
- Removes the traditional barriers between contents and builds understanding as it is applied in the global economy.
- Exists in every corner of the world as students connect their knowledge with engineering, lab research, manufacturing, doctors, graphic arts, performing arts and an endless number of other innovative jobs.

Academy Goals

- Increase exposure and awareness of STEAM² pathways and careers in all content areas.
- Strengthen partnerships between workforce and their future employees.
- Encourage and foster our existing curriculum that supports higher order thinking through inquiry-based learning.

Student Participation

- The high school offerings will formulate as one camp with three separate learning pods. Students will be together in a whole group environment to learn from career speakers and an overview of the need for jobs in the STEAM² field. Students will then work collaboratively in the learning pod they choose for the week.
- Registration for the summer program will start on a first come first serve process with a waiting list if needed.
- The fee is \$100 per student with the majority of the cost being absorbed by the "Parkland Education Foundation".

Engineering Design and Problem Solving (8:00-3:00)

Do you like to build stuff with your hands? Do you like solving problems with tools? Are you a creative, out-of-the-box thinker? If you answered YES to any of these questions, then Engineering Design and Problem Solving is for you! In this workshop students will work in teams to design a MASSIVE Rube Goldberg Machine that will stretch across the room and stretch your science, technology engineering, and math skills – all while having MASSIVE amounts of fun.

Biotechnology (8:00-3:00)

Students in this workshop will be introduced to the content and concepts involved in biotechnology related to STEAM² including: Gene Therapy, Nanotechnology, Stem Cell Research and Applications, Bacterial Transformation, and Gel Electrophoresis. Students will have opportunities to create, innovate, and experiment using biotechnology equipment and will include studies involving our infamous biological model: the slime mold (*Physarum polycephalum*)!

Film and Video Production (8:00-3:00)

The perfect workshop for enthusiasts who are ready to get serious about their film and video production; this workshop is the ideal way to get a hands-on experience. The workshop will cover the fundamental techniques for film making, editing, sound and lighting. This experience will give students access to equipment and technology to produce individual and collaborative videos.



High School STEAM² Academy Registration
And
Summer Camp PERSONAL/HEALTH DATA FORM
June 12th - June 15th
(Monday-Thursday in person, No Friday)

PLEASE PRINT CLEARLY

REGISTRATION

STUDENT'S NAME: _____

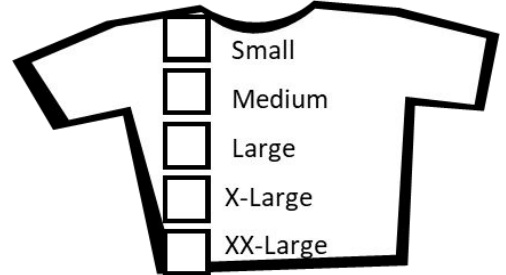
GRADE COMPLETED (2022-2023) SCHOOL YEAR: _____

PARENT'S EMAIL: _____

All Sessions will be held the week of June 12th through June 15th

Please Indicate Adult T-shirt Size

- Session 1: Engineering Design and Problem Solving
- Session 2: Biotechnology
- Session 3: Film and Video Production



PLEASE NOTE: For **Parkland Students** enrolled in 9th-11th grade in the 2022-2023 School Year.

*****NO EXCEPTIONS WILL BE MADE.*****

PLEASE FILL OUT THE MEDICAL PORTION AND MAIL ALONG WITH REGISTRATION AND CHECK.

Please include a check on the amount of \$100

Make check payable to the "Parkland School District" and mail to:

Parkland School District, Attn: Jessica L. Miller, 2219 N. Cedar Crest Blvd, Allentown, PA 18104

MEDICAL/HEALTH:

PARENT/GUARDIAN'S NAME: _____

ADDRESS: _____

CELL NUMBER: _____ **NUMBER DURING CAMP:** _____

LIST ANY SPECIFIC MEDICAL CONDITIONS YOUR CHILD MAY HAVE: _____

LIST ANY FOOD AND/OR MEDICAL ALLERGIES YOUR CHILD HAS: _____

IN THE EVENT OF ILLNESS OR AN EMERGENCY, PLEASE LIST THE PERSON YOUR WOULD LIKE CONTACTED FIRST AND THEN AN ALTERNATIVE CONTACT PERSON. PLEASE BE SURE TO **PRINT** THEIR FULL NAME AND TELEPHONE NUMBER.

EMERGENCY CONTACT 1: _____

Name

Phone Number

EMERGENCY CONTACT 2: _____

Name

Phone Number

PARENT/GUARDIAN SIGNATURE: _____ **DATE:** _____