



SCIENCE!  
TECHNOLOGY!  
ENGINEERING!  
ARTS!  
AVIATION!  
AGRICULTURE!  
AEROSPACE!  
MATH!



# NEWSLETTER 2023 IN A SNAPSHOT



## SUMMER CAMPS

Science, Design, Engineering & eSports

The STEAM team had a very eventful summer across SoCal! Starting with an Overwatch 2 summer camp at Contenders in Irvine, and continuing with Aerospace and Rocketry” at CSULB, followed by “Environmental design” held at CPP, and ending the summer with “What is engineering” hosted by UCR. We thank our University partners, school partners and local partners for sharing our mission in bringing nuance and future careers to the next generations!

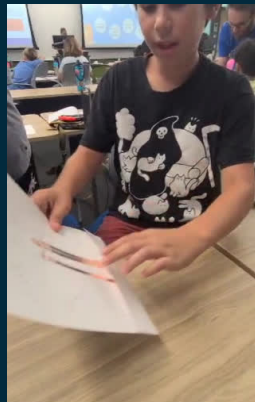


### Overwatch 2 Camp

Held at Contenders eSports in Irvine, STEAM's eSports team invited students to a week long immersive summer camp going over the basics of Overwatch 2. Players got to learn game mechanics, positioning, and finished the week with competing in ranked games! Students that had never previously played the game before walked away with a new skill.

### UCR Engineering Camp

Science starts early, so at UCR, the school of engineering wanted to start planting the seed early; with the youngest participant in this camp being in 2nd grade. Throughout this week with UCR's Engineering department, students encountered several design challenges; having to create an arm that is strong and delicate enough to pick up materials ranging from cotton balls to ping pong balls.



### CPP Environmental Design camp

Within the school of environmental design, students filed in eagerly to learn about environmentally conscious architecture. In this camp, the participants got to design their own buildings from a variety of materials, and even got to learn about “environmental design” from other species, like birds and how they build their nests!

### Aerospace and Rocketry Camp



More than 10 high school students flocked to CSULB for a week-long, hands-on summer camp in Rocketry and Aerospace taught by Dr. Mahdi. Within the camp, the students learned about components of rocketry, the physics behind launch and rocket design. Additionally, rocket safety and launch precautions were taught to the students, leading to a rocket launch later in the year!



### Lynwood x NCRF STEAM Camp

At the end of summer, STEAM joined the City of Lynwood in a camp that was dedicated to the students of the community to receive hands on experience with a variety of science disciplines. In the camp, students learned about biology through petri dishes and microscopes, physics through building their own roller coasters, and encountered engineering by building robots.



# >>> 10TH ANNUAL S.T.E.A.M EXPO

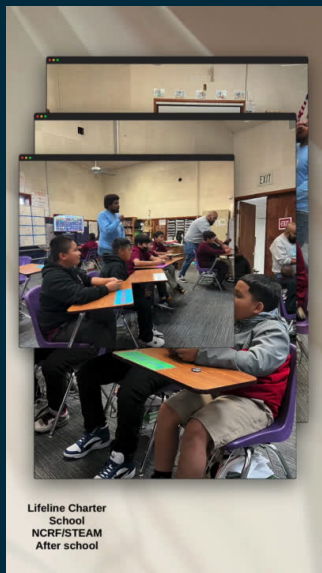
Over 1000 students from all over Southern California flocked to LA Trade Tech College (LATTC) on Friday October 6th to attend the 10th annual Students Think STEAM Expo. With a variety of colleges, universities, labs, and programs in attendance. Every student had an opportunity to explore something of interest and participate in Scholarships!!!!



## WHERE FUTURES ARE MADE!

### >>> STEM/STEAM

## AFTER SCHOOL



Our after-school program will help students learn the fundamentals of the gaming industry by elevating players to reach their maximum potential and success with gaming. Our coaches will render educational materials in Graphic Design, Video Effects, Marketing, and Content Creation as well as coding, programming, engineering, and other STEAM activities. This will allow the students to grasp and understand the variety of career paths in the GAMING industry.

# SMASH TOURNAMENTS

@ Black College Expo @Palomares Academy

The Black College Expo brought the 2nd annual Smash Tournament amongst PUSD students! Winners walked away with a VR unit each. 30+ students joined us for our 2nd annual Super Smash Bros Tournament held on 11/11/2023 at the Palomares Health Sciences Academy. Competition was fierce and all of the competitors were on top of their game!



# WE WERE SEEN AT

## »»» LA Black College Expo

Students Think STEAM team bring the STEAM PAVILION to the annual Black College Expo™ with the STEAM Mobile, the African Americans in Aviation Traveling Museum, eSports competition, Seminars in eSports, educational activities for student engagement, and partnerships with other STEM/STEAM organizations and sponsors.

## »»» Girls in Aviation - Compton Airport

In an exciting new collaboration, STEAM participated in the "Girls In Aviation" event held at the Compton Airport. Students of all ages attended this event, learning about the possibilities in aviation; as pilots or engineers and more. Students also got to take a ride in the passenger planes that were available throughout the day. Phenomenal experience for all participants involved.

## »»» Lynwood STEAM Day - Will Rogers

Over 60 5th and 6th grade students crowded into the MPR to learn science with the STEAM team. With the help of NCRF's Movement team, STEAM taught students about the way energy travels through conductive materials, and traveling through a circuit. In the other half of the MPR, students were elbow deep into squishing strawberries, pulverizing them to break down the cell wall and allow the DNA to float freely so they can extract and observe it.

## »»» STEAM @ Hosler Middle School

In continuation with Lynwood, STEAM arrived at Hosler middle school to invite the students to learn about the different experiences that were offered. Students got to experience chemical reactions of exothermic properties through a fun foamy experiment dubbed "elephant's toothpaste". Additionally, students faced off against our eSports professionals in Super Smash Bros Ultimate, and picked up a few tricks to put in their sleeves for their next opponents.

## »»» STEAM @ REFLEXIONS in Covina

A learning opportunity was had at Reflexions in Covina - a retail gaming store with state of the art electronics in gaming for students to play, learn and compete on a daily basis. STEAM team engaged with students and provided skills and tips in SMASH competition. Prepping for future competitions!

## »»» Griffith Observatory

Joining Hosler Middle School once again, the STEAM team heads to the Griffith Observatory to teach students about the universe around us. Barring a little bit of rain, students watched the "Water is life" presentation, delving into why water on earth is so important. After the show, the team ventured downstairs where students had the opportunity to learn about each planet in our solar system, and even got to see how much they weighed on different planets.

## »»» Lynwood Career Day - Bateman Hall

Over 900 middle school students from all over Lynwood came to Bateman hall to hear from STEAM, Movement and others in the community about potential career fields. A lot of students stopped by the STEAM table to inquire about being a doctor, marine biologist, or an artist, and the STEAM team was more than happy to provide them with information about the variety of degrees that each field would need.

## »»» OC Bookfair

STEAM was invited to participate in the OC Bookfair for the 4th year in a row, and had the pleasure of bringing the excitement of STEAM to all of the families that attended. Students and families were able to learn about DNA extraction from strawberries, explore circuitry with Play-Doh, and work with robotics.

## »»» STEAM with Rising Scholars

In partnership with the Rising Scholars academy, the eSports team from STEAM held a showcase for the rising scholars students. Participants got to compete against eSports professionals and learn more about the career pathways into eSports.

## »»» PUSD - SEEO home school program

In partnership with PUSD and their home school division (SEEO) we bring our eSports gaming professionals to the classroom and engage with the ins and outs of gaming and this multi billion dollar industry as a career option. Expanding their knowledge to understand the bigger picture of this industry gives them more technological opportunities that they may have never considered.

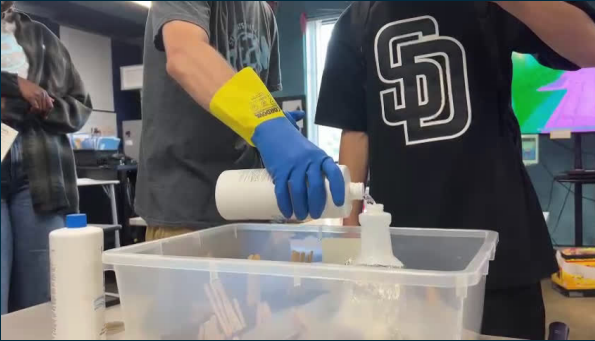




>>> San Diego

# STEAM DAYS

37ECB invited our STEAM team to host a 3 day program in October teaching students a variety of subjects, spanning Life Science, Earth Science and Astronomy. For many students, this was their first exposure with dissecting a squid, creating igneous rock and learning about dark matter!



>>> BIG NEWS IN SCIENCE

# WHAT'S NEW IN THE WORLD AROUND US?

## Two newly found deep sea coral reefs



Four decades ago, warm waters from an El Niño event killed off nearly all the corals surrounding the Galápagos. Most coral reefs never recovered. In recent months, researchers have discovered vast landscapes of thriving corals in deeper waters surrounding the equatorial islands. In April, scientists documented the first pristine deep coral reef found in the region, dubbed “Cacho De Coral”, which sits atop the ridge of an underwater volcano and stretches about 250 meters. On October 26, a second team announced the discovery of an even bigger reef, this one more than 800 meters long, spanning the length of eight football fields.

