

S.T.E.A.M. NEWS

Quarter 1 and 2 | January-June | 2020

S.T.E.A.M TEAM goes virtual!!!

We were challenged, as were many people during this COVID-19 pandemic to bring the instruction into the households of the students.

Students Think S.T.E.A.M initiative created a robust cast of characters and engaged with the 4th, 5th and 6th graders of Golden Springs Elementary School in Diamond Bar. Read below for more exciting details.

Winter/Spring Session

Hello from the Students Think S.T.E.A.M. Team at National College Resources Foundation!

We are very excited to share our latest newsletter with you. Over the last six months, we were part of 2 different S.T.E.A.M. Events, as well as 3 NCRF Black College Expos and developed a Virtual Classroom for grammar schoolers.

Read on to learn more about the S.T.E.A.M. Mobile experience that you can bring to your school, camp, fair, or any place of business.

We thank you for your continued support!

-The Students Think S.T.E.A.M. Team



Ignite, Excite, Build !
S.T.E.A.M. Classroom on Wheels





S.T.E.A.M. Team Highlights

Through interactive displays and hands on workshops, the S.T.E.A.M. Mobile inspires curiosity and instills a sense of accomplishment, as students take on the traditionally viewed as “harder” subjects in school with a fun twist.

Golden Springs Elementary School – Financial Literacy for 4th – 6th Grade Students

*January 13 thru March 9th, 2020.
Diamond Bar, CA*

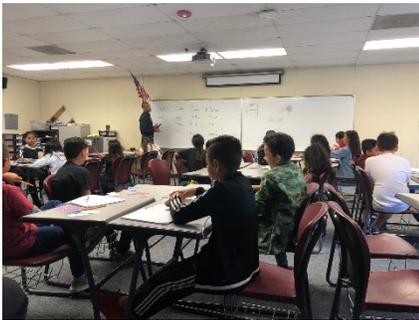
Students Think STEAM Initiative continues its yearly partnership with PUSD and Golden Springs Elementary School and launched its first “Budget Skills & Financial Literacy” 8 week program. A total of 77 students were presented with:

Basics of Money; earning income, cash flow quadrant & taxes. Basics of Budgeting and Savings Basics of Investing; Growing money, becoming an investor & the stock market.

It was amazing to see the students gravitate towards the understanding of Budgeting, Saving and Investing. They truly showed an interest in how they would manage (make believe of course) their monies and how to invest. The students also designed their own \$100 bill, worked in teams for investments and learned to create budget sheets.

Students Think STEAM Initiative can bring this program to your school as well as our Graphic Arts program teaching students about Advertising, Branding and Creative Design.

Below:
Students engaged in learning during the Financial Literacy Program.



BCE San Diego

*January 29th, 2020.
San Diego, CA*

San Diego BCE was honored to have highlighted the STEAM Mobile this year. Approximately 2,000 high school students were able to explore a hands-on understanding to 3D printing, coding and virtual aviation. We encourage all students to explore their potentials and be exposed to different technological experiences. One never knows when that “light bulb” can spark a student’s interest.

Below:
Students exploring education in the S.T.E.A.M Pavilion, and outside in the S.T.E.A.M Mobile!



Highlights Continued

21st Annual Black College Expo

February 1, 2020.
Los Angeles, CA

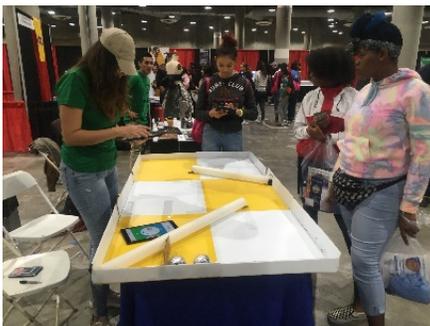
Over 12,000 students and parents were able to explore the STEAM Pavilion at the Black College Expo™ at the LA Convention Center.

Not only does this grand event bring higher education opportunities to High School students it also allows students to think outside the box, bring new ideas to the table and engage with institutions and business' one-on-one.

The STEAM Mobile and our STEAM/STEM partners engaged with thousands of students to share and expand their minds. Introducing students to 3D printing, robotics, aerospace, video gaming, coding, the Tuskegee Airmen Aviation museum just to name a few.

Below:

Students in the STEAM Pavilion of the Black College Expo learn about robotics.



SDSU Rocket Launch

February 1, 2020.
San Diego, CA

San Diego State University students successfully built and launched a rocket, named the Lady Elizabeth. The rocket reached 13,205 feet and had a maximum velocity of 711 feet/second! SDSU is the first school in the nation to launch and recover a student designed CH4 rocket with a regenerative engine.



Above:

SDSU students gathered around the Lady Elizabeth, which landed about a mile away from the launch site.

(NCRF and Students Think S.T.E.A.M Initiative work very closely with seven Universities within Southern California to assist in the advancement of Aerospace studies. Each university has been challenged to launch a liquid fuelled rocket and reach 30,000 feet. San Diego State may not have reached the required height into our space but it was the first to execute a successful launch and recovery. Way to go SDSU!!!)

MVUSD Unity Expo

February 8, 2020.
Moreno Valley, CA



This year's Unity Expo was full of amazing vendors and bright, eager kids! We had a great setup with a 3D printing display, interactive robot displays, and a hands-on flight simulator game inside the S.T.E.A.M Mobile.

We encourage all students to try something different. To step outside their comfort zone and explore a subject matter or experiment that they may not have been familiar with. This allows for mind growth, curiosity and the ability to find that "WOW" factor.

NCRF S.T.E.A.M Team speaking on a panel to discuss the pros of college and their personal journey with education in the STEM/STEAM career tracks to High School Students.



2nd Annual Black College Expo

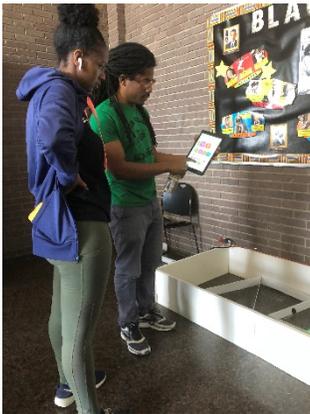
February 29, 2020.
Dallas, TX

STEAM on the Move made the move to Dallas this year to participate within the Black College Expo and engage with over 1500 students and parents as they were exposed to aviation, robotics, coding and a mini maker space.

All high school students who partook in the Black College Expo™ had an opportunity this year to explore the STEAM career opportunities and cross reference their interests with the Universities represented.

Moses Holley, our resident engineer provided his knowledge to students at various levels with career options.

“We live to Ignite, Excite and Build the minds of tomorrows High School students across America”



Above:
Moses teaches a student about robotics in the S.T.E.A.M Pavilion.

S.T.E.A.M Fair

March 6 & 7, 2020.
Pomona, CA

The Pomona Fairplex had their 2nd Annual STEAM Fair, with food, games, and of course all things S.T.E.A.M! Our team set up the STEAM Mobile with hands on flight simulator games and two 3D printers. Thousands of kids came with school fieldtrips to expand their knowledge and have fun. Parents and kids loved the STEAM Mobile, and they especially loved the flight simulator.

This year the Pomona Fairplex expanded on their event allowing more interactive booths for the students to engage with.



Above:
Kids and parents learn about 3D printing at the S.T.E.A.M Fair. Inside the S.T.E.A.M Mobile, it is housed with nine computers and 2 - 3D printers! Fun for all.

Golden Springs Elementary School – Virtual Classroom for 4th – 6th Grade Students

May 2020.
Diamond Bar, CA

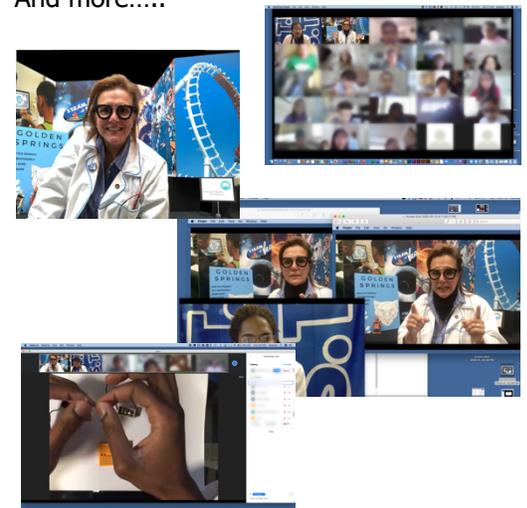
NCRF and Pomona Unified School District (PUSD) have partnered for the last year to introduce new “out of the box” programs that engage 4th thru 6th grade students in a variety of S.T.E.A.M related topics.

Normally this is done on campus in the STEAM Mobile. However, this final quarter of the school year took an unforeseen turn with COVID-19 and it was a mad dash to create and execute an online STEAM/STEM program with as much enthusiasm and creativity to engage the students as if we were on campus!

Adhering to district protocols and school details we launched our program “STEAM with Vee” with enthusiasm and wonder. The student’s level of engagement was magnetic.

Twice a week we brought some exciting STEAM topics such as...

- How do Roller Coasters work?
 - Basics of Circuitry
 - The wonders of 3D printing
 - Leonardo Da Vinci, 500 years ago
 - Basics of Finance
 - The Word of the Day
 - Origami
 - Learn how to Juggle
 - Interesting animals
- And more.....



If you would like more information on how you can bring "STEAM with Vee" to your classroom virtually please call or email us directly.

Upcoming Events:

At this time due to COVID-19 and the uncertainty of when the CDC will allow large groups of students to gather in one place we are conducting our STEAM projects and events online. Please stay tuned on our progress and future events by going to NCRFoundation.org/STEAM. Stay positive, move forward and we will get through this together.

S.T.E.A.M.

SCIENCE • TECHNOLOGY • ENGINEERING • ARTS/AGRICULTURE/AEROSPACE/AVIATION • MATH

As our program grows, we hope to reach more and more students to bring awareness and education to them about the S.T.E.A.M. fields. Many students are unaware how fun and diverse the S.T.E.A.M. fields are, so our mission is to connect with as many students and families as possible to Ignite, Excite and Build future minds!

Thank you!



Students Think S.T.E.A.M.! is powered by National College Resource Foundation. Visit our website at www.thecollegeexpo.org and learn about all the events, showcases, and expos that NCRF presents on a yearly basis!



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www.thecollegeexpo.org



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