



IMPACT REPORT

Calculus Roundtable 2022-23 Impact Report

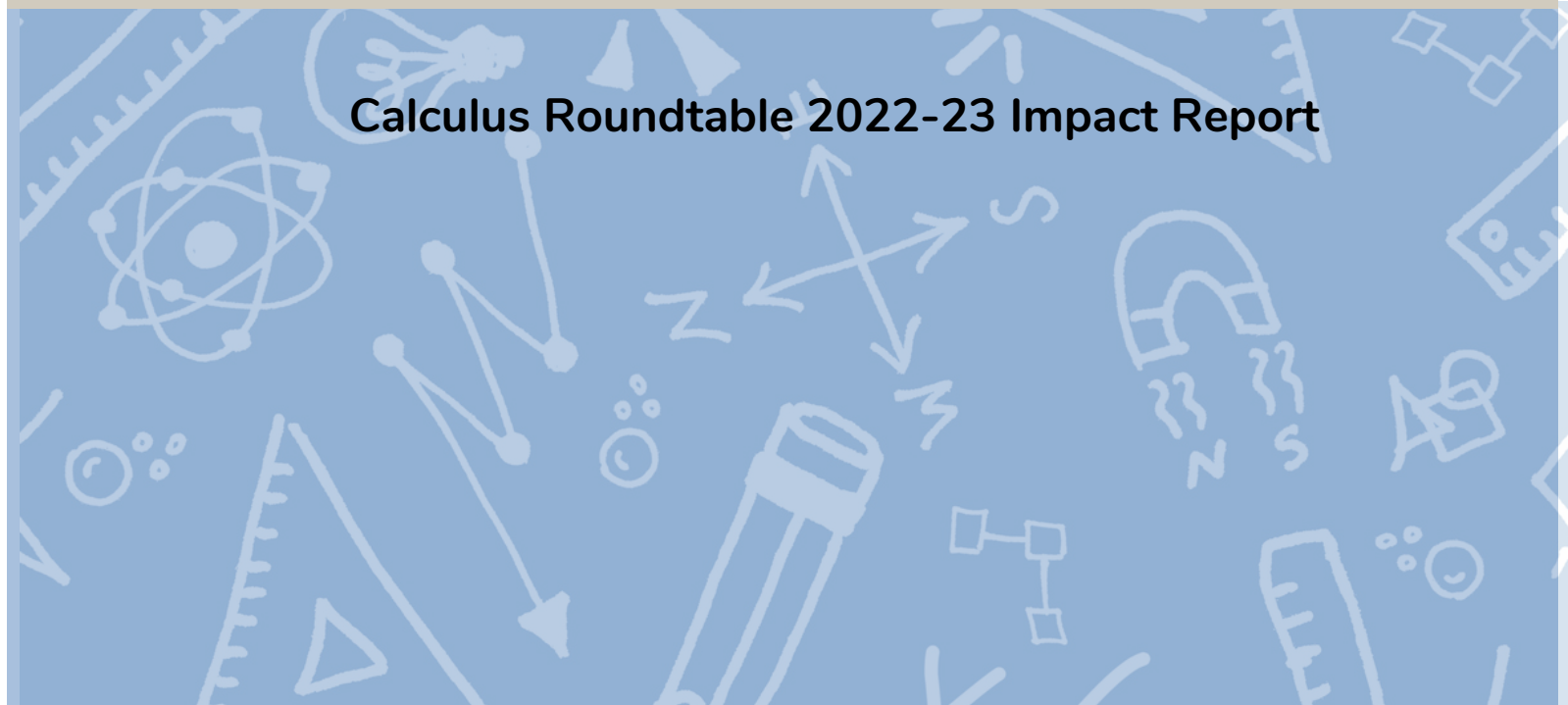


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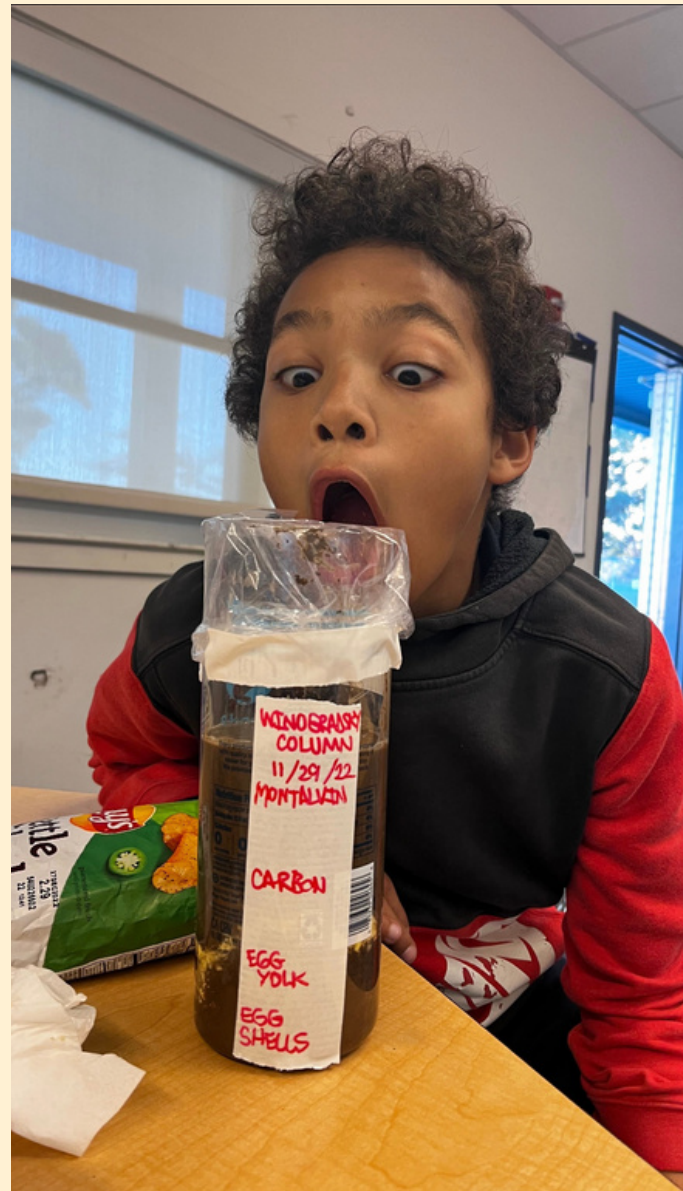
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Measuring Impact



Introduction

The one of this nation's most impactful nonprofits for student achievement for students of color in STEM

Calculus Roundtable - one of the most impactful STEM organizations for minority students and students from underserved populations . We are dedicated to supporting all children with a particular focus on Black and Brown students and those from underserved populations in the field of STEM. Our goal is to engage students from Pre-K to 12th grade through hands-on, project-based learning experiences. These experiences expose them to a wide range of knowledge and opportunities within science, technology, engineering, and math (STEM) fields.

When we consider the future of our students in emerging industries, it is crucial that they have a seat at the table. Students are the ones who will lead us into the future, aligning with the evolving needs and resources of the world. The demand for jobs requiring STEM degrees is projected to grow four times faster than overall job growth.

According to the Business-Higher Learning Forum, many of these job openings will be outsourced due to a shortage of qualified candidates in the United States. Surprisingly, less than 40% of students who initially plan to major in STEM fields actually graduate with a degree in their chosen field. During the pandemic, STEM graduation rates for underrepresented minority college students plummeted by 25% since 2019.

Furthermore, when we surveyed our students and families, we found a significant interest in STEM fields.

These statistics highlight the importance of STEM skills in improving our lives and communities. By providing students with access to these skills, we can unlock their untapped potential and increase their personal and generational wealth. By exposing more students to opportunities in industries like computer technologies, healthcare, biomedicine, and biotechnology, we can create more jobs, higher incomes, and greater economic growth. There are numerous untapped employment opportunities for African Americans, Hispanics, women, and other underrepresented groups in various industries.

It is with this understanding that Calculus Roundtable aims to inspire children to dream of opportunities in STEM, nurture those dreams, and provide them with the tools to achieve their goals. By integrating STEM programs into Pre-K to 12th grade curriculums, we lay a strong foundation for their future success, both personally and professionally. Additionally, a strong STEM background will contribute to the growth of the biotech industry, ensuring a brighter future for our world.

Message from our Director

As we look to the future, we are more committed than ever before to our mission of improving math and science outcomes for students. We know that with your support, we can continue to make a meaningful impact in the lives of countless students across the Bay Area, across California and across the nation as new programs begin and mature in the Central Valley, in San Diego, in Tacoma Washington and New York. Whether through your time, donations, or other contributions, your support is critical to our success, and we are grateful for your partnership in this important work.

Despite the challenges posed by the COVID-19 pandemic, we have remained committed to our mission and have adapted our programs to meet the needs of our students. Our virtual programs and the **STEM Broadcasting Network** have allowed us to reach even more students and continue to provide high-quality STEM education.

We could not have accomplished all that we have without your support, and for that, we extend our deepest thanks.

We are particularly proud of the diversity of our student population. Our programs serve students at every age, from early education to career technical training, and we are dedicated to ensuring that all of our students have access to high-quality STEM education. Through our programs and partnerships, students have not only gained an understanding of the scientific method but have also developed the persistence necessary to pursue STEM education and careers throughout their lives.

"We could not have accomplished all that we have without the support of others"



Calculus Roundtable
Executive Director
Jim Hollis

A handwritten signature in black ink that reads "Jim Hollis". The signature is fluid and cursive, with a long horizontal line extending from the end.

Our Mission



Our Mission: To improve math and science skills for students particularly students of color

Calculus Roundtable is a nonprofit organization that is working to accelerate math and science skills for students of color. Our vision is to give all students an understanding of the world through the lens of math and science and that their future lives are not decided by random but by effort.

We help students gain access to tutoring, and STEM after-school programs that boost their math and science scores. 25,000 students live impacted

“Math and science education is the civil rights of the 21st Century.”

We are proud to give the kids the opportunity to be great.

Calculus Roundtable
Board President

Trinya Topping

Handwritten signature of Trinya Topping



Our Vision

Imagine a world where every child was recognized for their precious humanity, where children learn to maximize their passion and turn that passion into academic excellence. Imagine a world where academic outcomes are not based on a family's zip code.

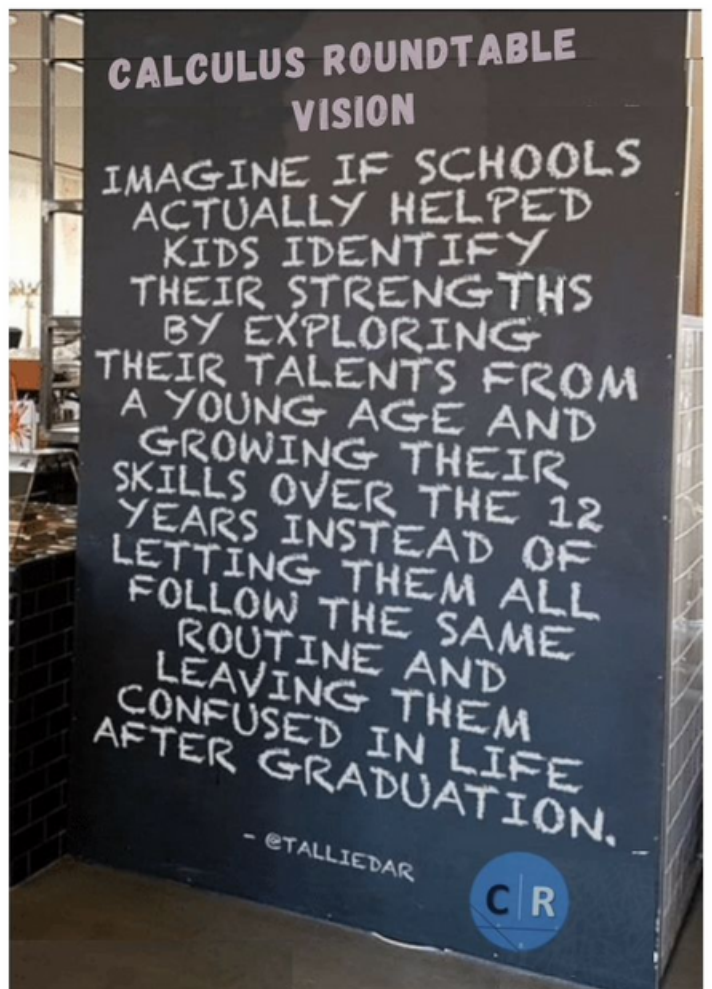
Imagine how much higher we could soar in math and the sciences if we realized and nurtured the ingenuity and imagination of ALL young people and supported them with an academic, community and family framework of trust and consistency.

Imagine if teachers learned from the students as much as the students learned from the teachers. Imagine if the community and community leaders' experience was embedded in the curriculum, where the education of one family member is sustained for generations.

Education is a human right and a force for sustainable development and peace. It is the most powerful weapon to end, cure poverty, end hunger and create social justice among people.



Math & Science of Indigenous Peoples Program - Tacoma, WA



Our Priorities



BioMed - Richmond, CA



Math Improvement

We build up students' math skills while having fun! along the way Look for online games that match your age and education. We practice math in everyday scenarios to make math part of our students' daily life.



Experiential Learning

We believe in the idea that the best ways to learn things is by actually having experiences. Those experiences then stick out in the minds of our students and help them retain lessons and meaning. When knowledge is made in part by experience cognitive retention takes place.



Belonging

The research shows that when students of color have a stem teacher of color an early age. They have a significantly higher chance of completing college. While it is clear, there is a teacher shortage. There's a teacher crisis when it comes to teachers of color in math and science. How do we keep both in schools?



Critical Thinking

Critical thinking for students is one of the most important skills in life. It is also an essential 21st-century skill. Critical thinking is a set of skills and habits of mind, including the ability to define a problem, identify assumptions, analyze ideas, and then systematically find different possible answers the ability to make creative connections between ideas from different disciplines.



Our Demographics

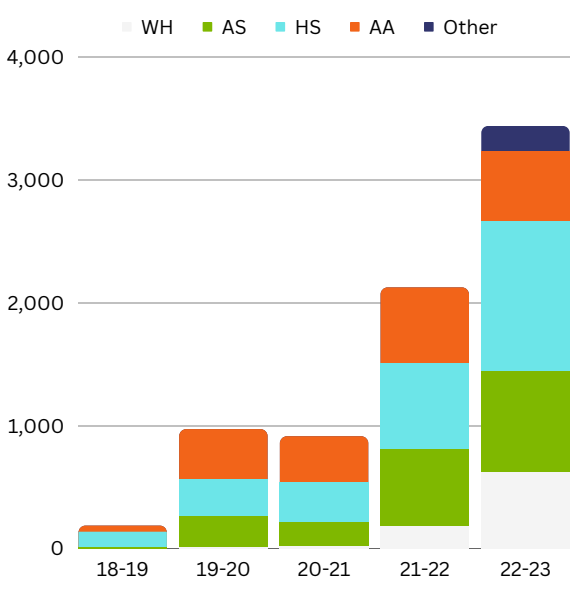


Female **Male**
43% **57%**
2,063 **3,001**

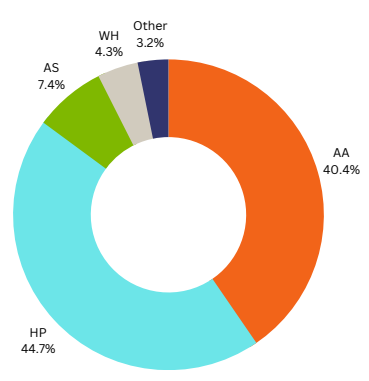
We build a collection of skills and abilities that give children the confidence to achieve. Each child has a different skill set that makes them great depending on their interests, natural abilities, personal qualities, and technical skills. Knowing and honing these skills can expand the students' professional competency and allow them to perform and pursue their greatest aspirations.

By high school, our students understand their educational journey and how we can help them achieve their goals.

Through college, we help students improve skills now with education and experience. We prepare them to be more advanced in relating previous learning to new situations, making them more likely to get or progress in the job market.



5,265
 Students served
 in 21-22 school year



More than
85 %
 Are students of color

CONSTITUENCY



21,384 students of all colors

DISTRICTS



48 School Districts

IMPACT



In districts serving **472,672** students

Our Impact



Black
40%

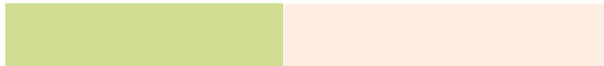
Latinx
48%

Over 85%
Students
of Color

Each one of our major initiatives grew last year in both depth and breadth.

High Dosage Tutoring Hours

High-dosage tutoring provides students with the tools and instruction to build on their skills and knowledge to tackle new learning. Excellent for differentiation and learning acceleration.



Digital One Room Schoolhouse (DORS)

K-8 fun and exciting, rigorous STEM activities align to grade-level standards.



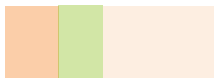
Digital Ports of Entry (DPOE)

HS career pointed STEM courses co-designed by industry professionals



JJC

Math and science activities & courses design for credit recovery for juvenile justice & incarcerated youth.



Events

Regional and online STEM events



2 OF THE TOP 5

ELEMENTARY SCHOOLS
IN THE BAY AREA
WITH THE
HIGHEST GROWTH RATES IN MATH SCORES
ARE CALCULUS ROUNDTABLE SCHOOLS

Statistics from
Great School Choices



More Impact



Professional Development sessions Santa Clara County Office of Education - San Jose, CA

Teachers' Professional Development

- Santa Clara County Office of Education
- Alameda County Office of Education
- Contra Costa County Office Of Education
- Hayward Unified School District
- Emery Unified District
- Beyond 100K community of practice
- West Contra Costa unified school district

Over 85%
Students
of Color

School Data

For our non-alternative HS students in our program
Graduation Rate

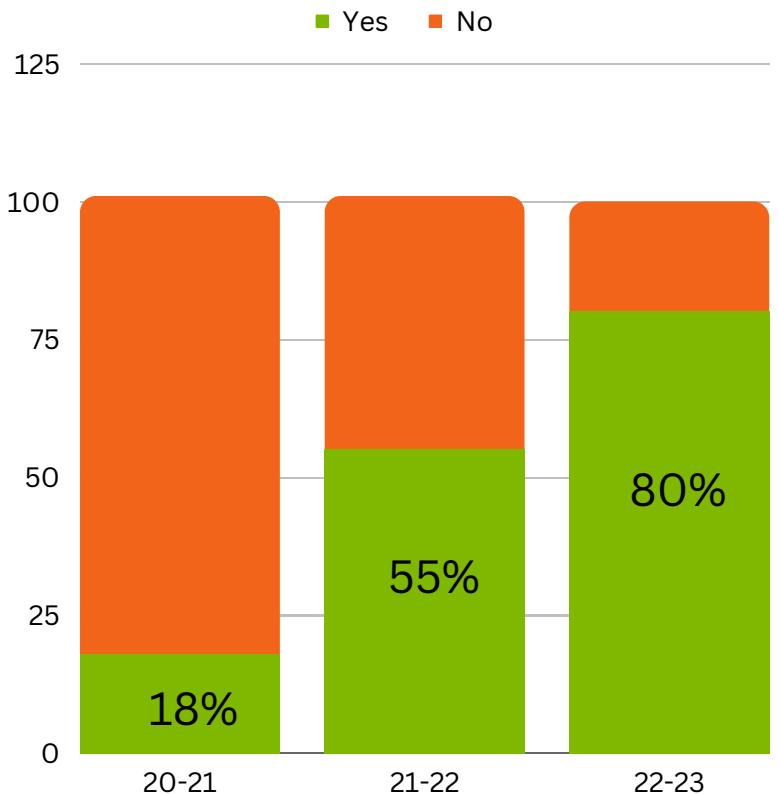
98%

(well above the high school median)



Homework assignments among high school students

High school student steadily performed higher in math assignments, quizzes and tests.



Our Locations

We've been honored to serve students in the San Francisco Bay Area and Los Angeles. Silicon Valley students were next and then students in Richmond and the Central Valley - California's breadbasket. Now with programs in New York and Washington state, Calculus Roundtable is slowly expanding our programs across the country.

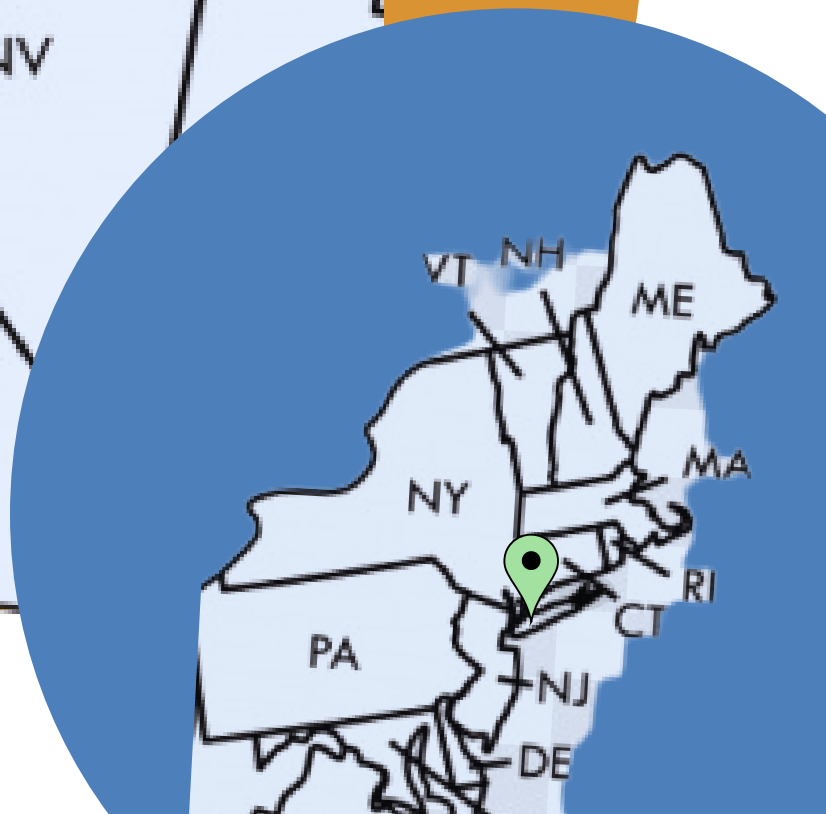
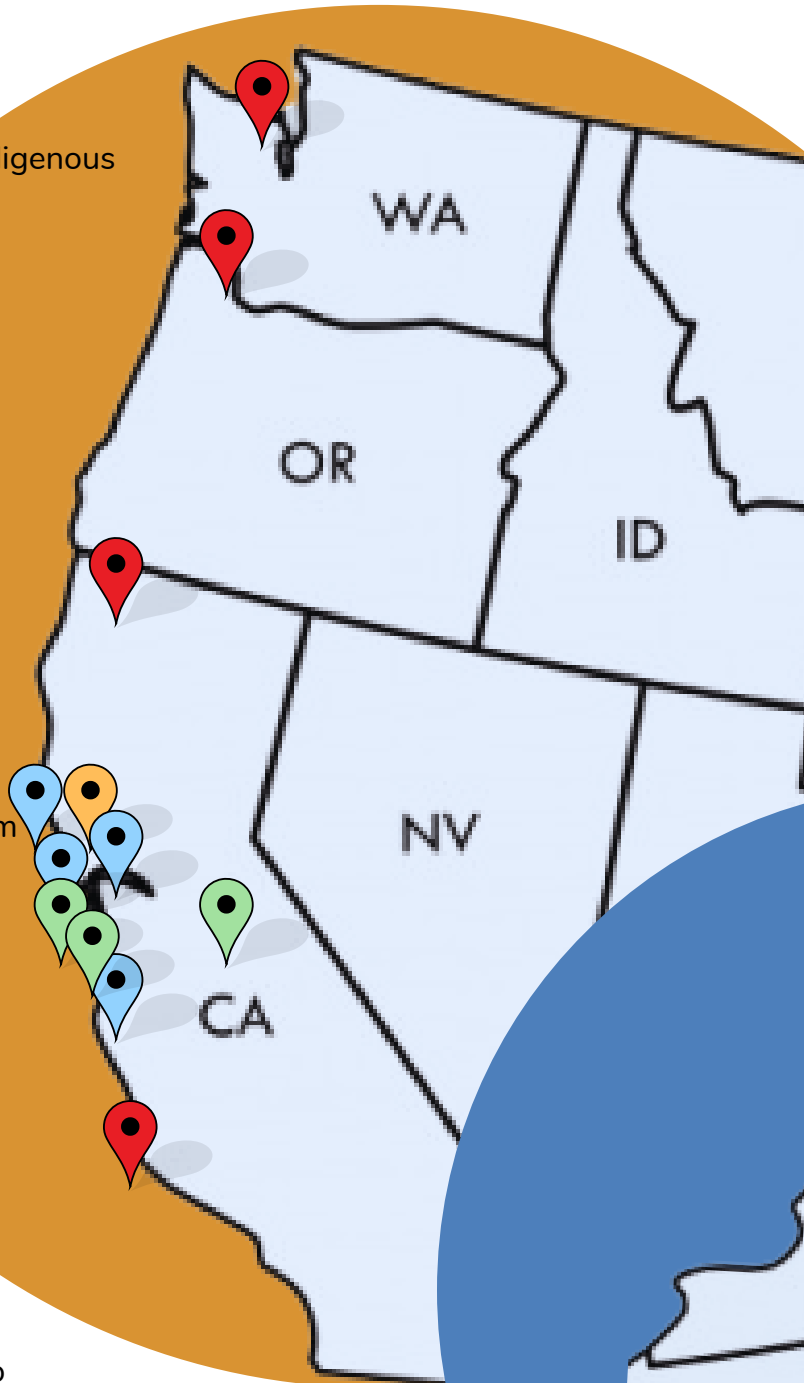
MSIP 
Math and science of indigenous peoples project

High Dosage Tutoring 
50 hours of month of personalize tutoring on one subject

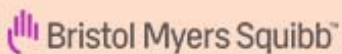
DORS 
culturally, inclusive, stem activities, aligned to grade level standards

JJC 
STEM classes for incarcerated youth.

DPOE 
Career and technical courses designed by to STEM industry professionals

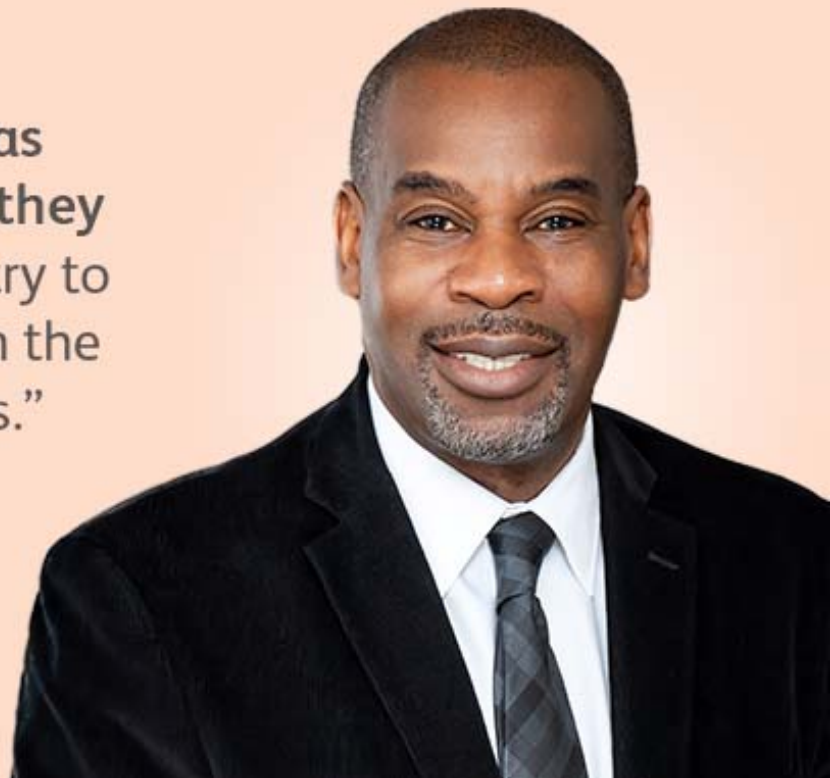


Bristol Myers Squibb is one of our leading sponsors in the area of Biomedicine and health equity courses.



“People’s capabilities are **only as limited as the opportunities they receive**, and I want our industry to provide as many as possible in the form of long-term investments.”

Tunde Bello
Vice President, Clinical Pharmacology
and Pharmacometrics



The Why

Bristol Myers Squibb's steadfast commitment to inclusion and diversity is not only undeniable but intentional. The company understands that a diverse workforce means multiple perspectives, varied experiences, and unique talents, leading to more innovative solutions and better patient outcomes. Their global People & Business Resource Groups (PBRGs) serve as change agents, in their drive for diversity and inclusion in the workplace and also in the community. With leadership Bristol Myers Squibb has implemented and supported various programs and initiatives including the Calculus Roundtable Diversity in STEM Fellowship, designed to support college students of color in the STEM fields. Bristol Myers Squibb understands that fostering an inclusive culture is critical to its success and societal impact.

[BMS.com](https://www.bms.com) 

@calcround 

The Girls Math Club



Girls Math Club - Lindsay, CA

The girls math club is a program designed for girls by women who love math and science.

Designed by female mathematicians and scientists of color, GMC is an innovative 8 week after-school class that instills confidence in algebra, geometry, statistics, and physics. Students learn at their own pace in a safe, supportive environment with access to interactive questions, fun activities, and one-on-one tutoring.

Girls' Mathletes Club isn't just about math; it's about strengthening each individual's voice, opening the door to higher-level math courses, and introducing a variety of careers within and outside of STEM.

“Together, we will continue to advocate for more STEM in the lives of young people lives in Silicon Valley”

VP of Security Research
Intel

Isaura S. Gaeta



Think Like a Game Designer



Think Like a Game Designer course - Richmond, CA

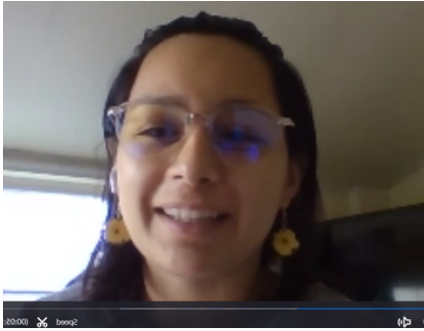
Understanding how video games are made grabs every kid's attention. It's the math and science that lies beneath the surface that allows them to relate coding to problem-solving and character development as articulation.

Students work in teams with industry-leading game designers and engineering students to learn the basics of game development. Available at an introductory, beginner, and intermediate level, club members graduate from having zero experience in coding to building apps and storyboards, designing characters, and creating virtual worlds using programming developed by MIT.

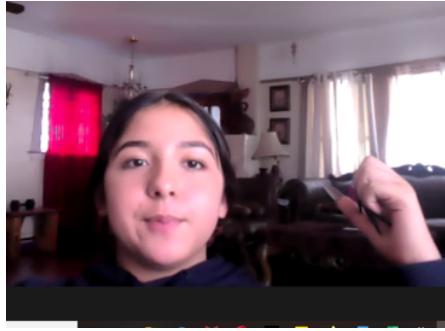
Our Instructional Coaches come out of our Diversity in STEM Fellowship program. Students of color majoring in a STEM degree support our K12 students in the class



High Dosage / High Impact Tutoring



High Impact Tutoring - Oakland, CA



$$\begin{aligned} n(n-1) + (n-2)(3-n) &\equiv 2(2n-3) \\ n^2 - n + 3n - 6 - n^2 + 2n & \\ 4n - 6 & \\ = 2(2n-3) & \end{aligned}$$

The Covid-19 pandemic caused a massive disruption to the traditional American education system. Students and teachers disappeared from classrooms almost overnight and became reliant on technology to fill in the gaps.

For some schools and communities, this meant deep losses in learning over the ensuing months. Calculus Roundtable immediately implemented a program where we met with the hardest to reach students. As a result, there is a new and growing trend advocating for high-dosage tutoring to help students recover from learning loss.

To help students recover from learning loss. Unlike traditional tutoring which may happen weekly for an hour or two, high-dosage tutoring is meant to provide more regular, intensive personal instruction. According to Stephen Sawshuk for Education Week, high-dosage tutoring “is defined as one-on-one tutoring or tutoring in very small groups at least three times a week, or for about 50 hours over a semester.”

High-dosage tutoring is not meant for remedial work but it can be an excellent resource for learning acceleration. This type of tutoring intends to provide students with the tools and instruction to build on their skills and knowledge to tackle new learning. Study after study praises the impact of high-dosage learning on student outcomes.

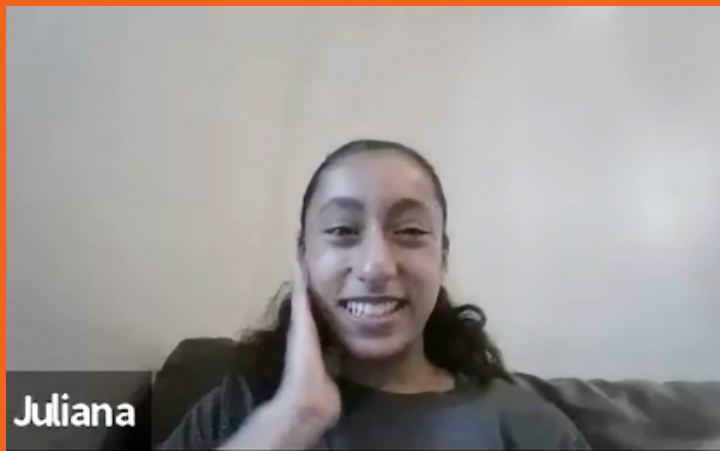
Our tutoring provides short bursts of instruction to individual students each week over the course of the school year



Student Impact Story

Julianna is a remarkable student who began with us as part of our virtual world tour program over four years ago. Her passion for learning and exploring new cultures has shone through in every activity we have had the pleasure of sharing with her. She is always enthusiastic about discovering new mathematical concepts and applying them in innovative and exciting ways.

Julianna's strong work ethic and dedication to improving her skills have made her an exemplary student, and her classmates look up to her as a role model. It is truly a joy to have her as a part of our program, and we cannot wait to see where her insatiable curiosity takes her next on our math adventure around the world!



Juliana joined our program four years ago as a student at Stewart Elementary school in Pinole, California. After our engagement with the school was completed, Juliana still wanted more, and her mother asked if there was a way she could continue even after the program was complete.

It was because of Juliana and her mother's persistence that we began our Homeroom program, allowing individual parents to sign up for the same customized education services and instruction we bring to large districts.

Now Julianna has completed the most hours of any of our students

Julianna Campos

6th Grade

West Contra Costa School District

Total # of Hours: 238.5

Climate Justice



We are excited about Calculus Roundtable and our Climate Justice Course, where middle and high school students engage in meaningful environmental science projects that examine significant issues impacting their region. Through this course, students will gain valuable skills in data collection and analysis while exploring important concepts like water usage, carbon dioxide levels, animal migration, emissions reduction strategies, and more!

By engaging with experts from scientific fields such as biology, oceanography, and geology, students can better understand the theory behind real-world problems. By working together, and utilizing math & science skills on collaborative projects focused on the climate, educators can foster critical thinking skills among their students while they also work to for their community.

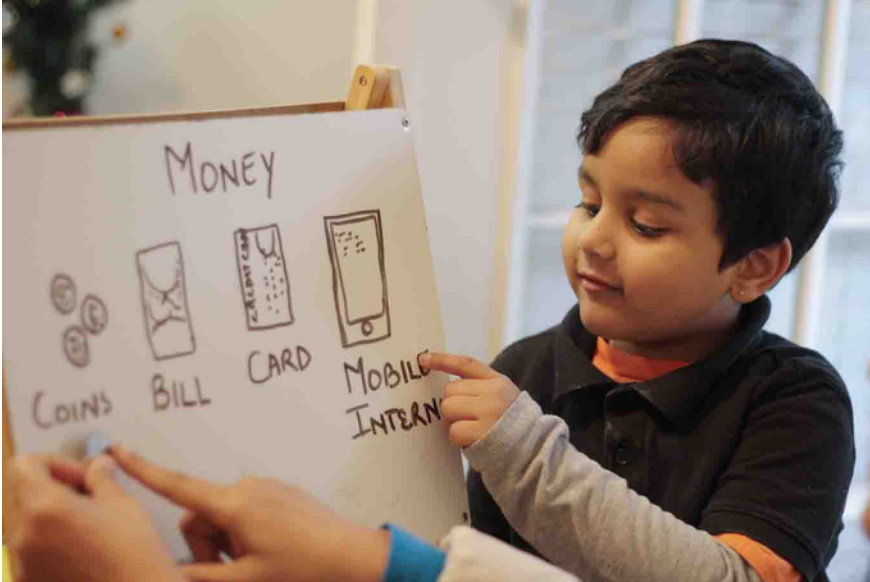
We frame climate change around social justice. More specifically, we provide empirical support for framing climate change education around intragenerational climate justice, and argue that this frame can influence youth in

industrialized countries, young people to become mobilized, climate-engaged individuals.

To do so, students apply critical qualitative analysis to real world environmental narratives & challenges.

Students learn the importance of contextualizing climate justice, framing climate change around humans, implicating ourselves in the problem and recognizing our own obligations in mitigation, seeing climate change as real and tangible, being iWe study places impacted by climate change, feeling solidarity with those impacted, and recognizing social injustice and power disparities within climate change impacts.

Money Works



“CR is teaching kids more than how to count money but rather, how to save invest and build wealth.”

Traditionally, financial literacy has focused on counting money and making currency exchanges. What kids need to know is where the value of money comes from and where money is made, saved, and lost. A true financial literacy program gives kids skills that last a lifetime.

In this empowering course, students examine a multitude of avenues for money, like income, finance, and budgeting, and learn the mathematics and concepts behind launching and maintaining a successful business.

The program aligns with school math standards and prepares students for higher learning and successful careers by teaching them the importance of managing earnings, savings, credit cards, and much more.



BioMed Start-up course
New York Stock Exchange

Homeroom

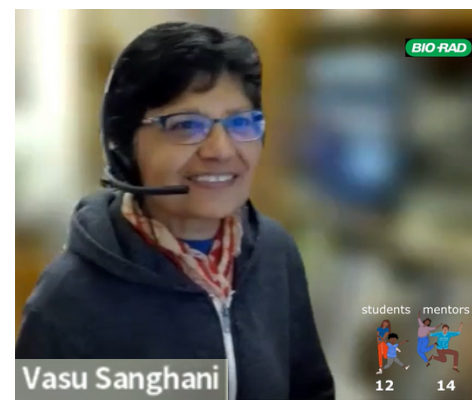


Bringing the same high-quality programs built for schools and district right to your living room. Now parents can work directly with Calculus Roundtable to design curriculum tailored to your child. Just as we do with districts.

The Homeroom program is a customizable solution for students and families who benefit from extra support outside the classroom. From their homes, students attend a weekly online meeting with their assigned Calculus Roundtable instructors to develop an individualized learning plan, create attainable goals, and monitor their progression.

Each semester, students have access to three Calculus Roundtable courses, the DORS website, and supplemental materials that steer them toward success.

I really appreciated that the volunteers and staff from Calculus Roundtable were inspiring and relatable to our students! Representation matters and your team hit the mark in such a positive and great way!



The Math & Science of Indigenous Peoples



Bringing ancient traditions of the world and framing them in a modern context.

The Math & Science of Indigenous Peoples is a culturally inclusive set of courses combining the traditions of Native communities with modern STEM subjects. Calculus Roundtable teachers, college fellows, and instructional coaches collaborate with tribal leaders to increase students' knowledge of new technologies and health and wellness. The program links willow trees to biomedicine, "Code Talkers" to Wi-Fi, and basket weaving to structural engineering while adhering to school-level math and science standards. These sets of courses are available at elementary, middle, and high school levels. MSIP has been shown to improve individual student math scores by building fundamental skills in a culturally inclusive way.

"The Elders were really surprised and felt very special to have something this tailored for our Tribe"

Shelly Covet

Spokesperson and Tribal Council Secretary
Nevada City Rancheria Nisenan Tribe

**257 Native
Students Served**

7 Tribes

1 Vision



Fellow Impact Story

John Zelaski

Diversity in STEM Fellow

Xavier university of Louisiana

Major: biology, pre-med

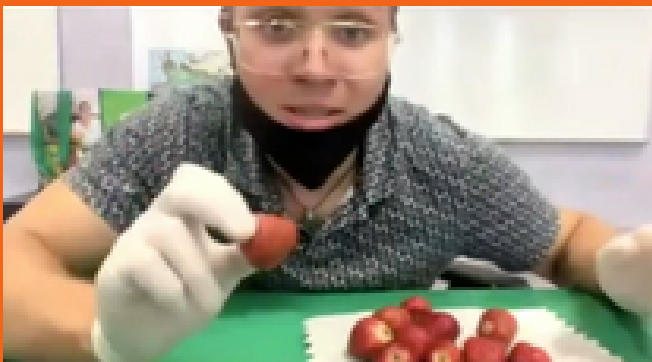
John was a graduate of a prestigious HBCU in Louisiana. He was exited to return to the SF Bay Area, where he grew up and dreamed of being a football player. After a stint in NCAA football John found the power of science to help people, and to ensure his future for a lifetime.

Fellows are for:
responsible for building new activities in health, biology and science

He coordinated special events like 'Charles Drew BioMed Workshop'

Represented CR at several biodiversity and health equity conferences

John's LinkedIn page charts his journey from student fellow to sciectific researcher



STEM Broadcasting Network class



John Zelaski (far l.) chaperones a group of Richmond, CA students to the prestigious, HBCU, Howard University

Experience



Pre-Exposure Prophylaxis Navigator

Charles R. Drew University of Medicine and Science · Part-time

Aug 2022 - Present · 9 mos

Los Angeles, California, United States

Drew CARES—a subsidiary of Charles R. Drew University—is stationed in South Cen...see more

Skills: Research · Public Health · HIV Prevention · Spanish



Science Educator

The Community School for Creative Education · Part-time

Aug 2021 - Present · 1 yr 9 mos

Oakland, California, United States

As an interim instructor via Calculus Roundtable, my task is to educate middle school students with respect to science—with an emphasis on biomedical concepts and applications. The Community School for Creative Education (CSCE) engages with students from surrounding communities to provide a rigorous college-preparatory program integrated into a culturally rich, arts-infused, highly personalized curriculum inspired by Waldorf education for the diverse students of Oakland.



Student Fellow

Calculus Roundtable · Part-time

Mar 2021 - Present · 2 yrs 2 mos

California, United States

The mission of Calculus Roundtable is to provide STEM-based educational programs to underrepresented students—specifically, students of color. Using an inquiry-based approach, fellows in the organization can take on various roles—e.g. tutor, mentor, or project management etc—while working with a professional in their field of expertise or interest. My work is centered around teaching students how to code, tutor them in math, and help them gain interest in the sciences while simultaneously participating in post-baccalaureate research.

BioMed / BioTech



In this 8-week program students are encouraged to connect natural science and medical technology through engaging, hands-on activities.

Our BioMed programs encourage students to connect natural science and medical technology through engaging, hands-on activities.

Whether they're designing EKG heart monitors, germ-fighting organisms, therapeutic toys, digital animations, or an artificial limb, students activate critical and creative thinking, enhance teamwork skills, and step into the role of medical investigators, surgeons, and biomedical engineers.

Subjects Include:

Life Science, Physical Science, Storytelling, Engineering, Chemistry, Robotics, Biology, Electronics, Atoms and Elements, Cell Theory & Structure, Biodiversity, Genetics, Human Systems

"We are so proud of the efforts these students have made to be great".

Sylvia Drew-Ivie

Charles Drew Medical School
(And a Calculus Roundtable STEM Industry Volunteer)



UI/UX



UI stands for user interface, and UX stands for user experiences in front of an app, game, or online business tool. These are areas that are a part of our lives every day.

Students in this course are literally designing the future.

Calculus Roundtable has teamed up with Google, Amazon, and EA Sports to produce this teenage-friendly, teacher-led program that introduces students to the diverse and lucrative career of user experience design.

Classroom activities and discussions reinforce the mathematics, data collection, and analysis skills developed via Google's "Foundations of User Experience Design" course so that students can develop their own apps, websites, and products. This program also provides resources and guidelines for CTE teachers so they don't have to become experts in UX design.

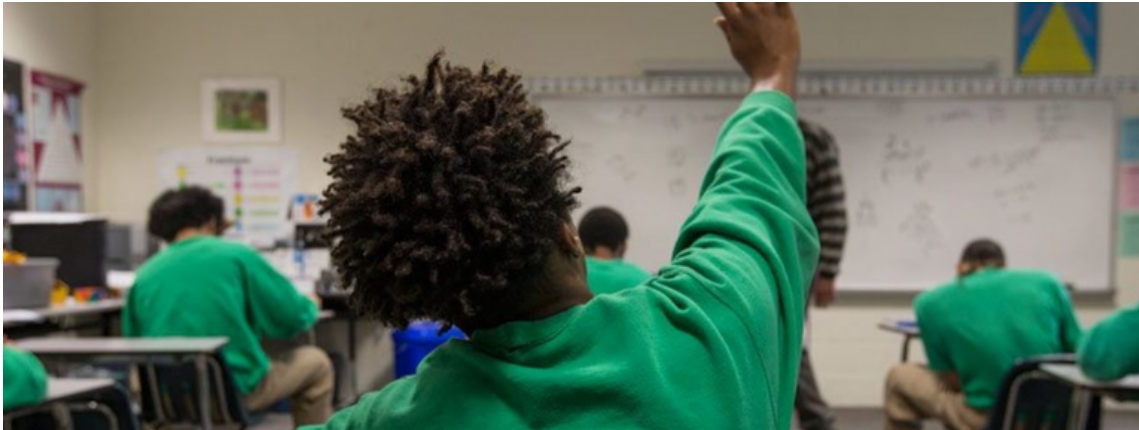
"It was a pleasure to codesign this course with CR fellows and watch it be implemented with high school students."

Jae Park

VP of Google
(And a Calculus Roundtable STEM Industry Volunteer)



JJC - Juvenile Justice Curriculum



We believe every person deserves access to quality education no matter their circumstances or background. In that spirit we offer JJC, a way to make an academic impact in the lives of at-risk youth?

The Calculus Roundtable juvenile justice program is an innovative and transformative initiative that provides incarcerated youth with hands-on math and science activities. Through this 8-10 week unit, these students gain valuable knowledge in coding, robotics, business math, money management and real estate. This program not only keeps young people interested in their futures but also instills key life skills for a better tomorrow.

Our program is to provides the necessary materials to create interactive learning experiences that prepare incarcerated adolescents for post incarceration success.

Shown to reduce the incidence reporting by

62%

“We appreciate Calculus Roundtable’s attention to detail and attention to our youth.”

Earl Crawford

Alameda County
Juvenile Justice Correction Facility

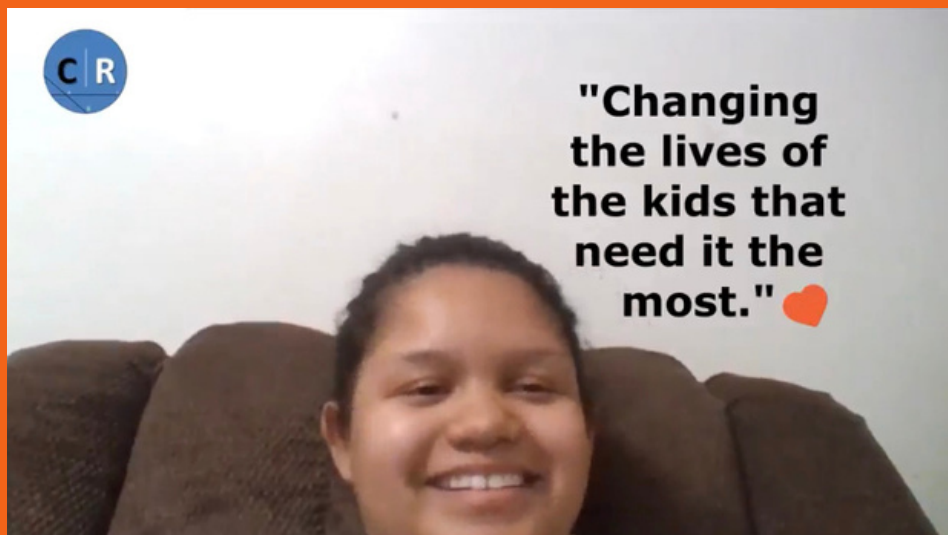


Fellow's Impact Story

Ana Hinojosa

Total # of Hours: 122

See Video



Ana was a fellow who came to us from rural Texas near the border of Mexico. Ana attended the University of Texas A & M Laredo International University in Laredo TX her experience through this program help to catapult her to a national internship in New York City where her skills could be most appreciated

Her accomplishments and responsibilities as a CR Fellow were as follows:

- Teaching 1:1 tutoring session with English Learning students
- **Group researcher for new initiatives**
- Co-authoring important data for the impact report
- The **designers** of the impact report
- Partnering with local and national partnerships

We thank you for your continued support in our efforts to contribute to the SDGs.

December 7th, 2023

Good morning,

I hope you are doing well. I just wanted to share some big news! I was accepted in to Bank of America in their Global Technology Program at New York for Summer 2023.

I wanted to thank you, because you guys believed in me, and therefore, I had the pleasure to connect with so many wonderful people, and have the right experience in my major.

Please if you need any help, I am available just send me an email or call me at [957-282-1100](tel:957-282-1100)

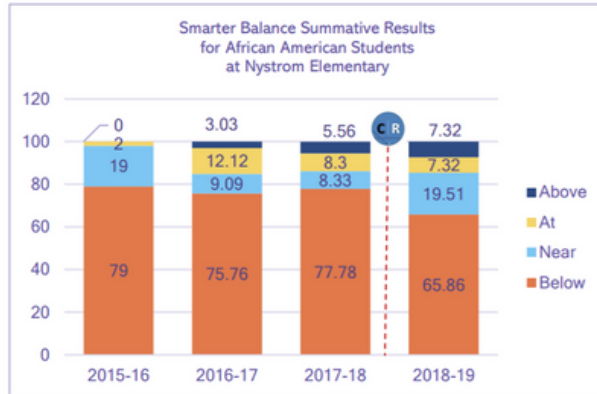
Again, thank you so much for everything.

Best,

Ana Hinojosa

Student Worker | College of Education
Texas A&M International University

Our Data Results



We were brought in to Nystrom Elementary, in Richmond's Iron Triangle to unlock a multi-year succession of stagnant test scores.

While one year of detailed and focused instruction is not a trend, it does speak to our impact on the students we serve directly as well as students' influenced by our work.

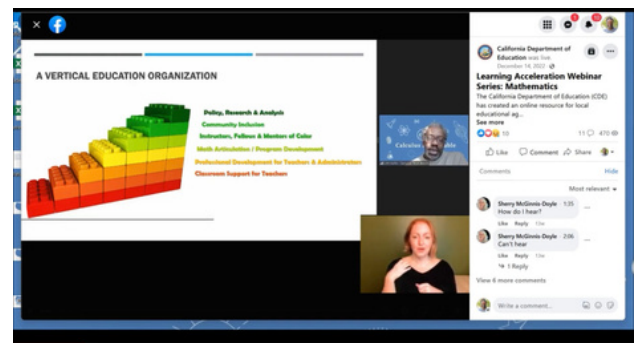
CALIFORNIA DEPARTMENT OF EDUCATION 2019

County	District	Calculus Roundtable School																																																																																															
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Our Mission: To improve math and science skills for students particularly students of color

Calculus Roundtable is a nonprofit organization that is working to accelerate math and science skills for students of color. Our vision is to give all students an understanding of the world through the lens of math and science and that their future lives are not decided by random but by effort.

We help students gain access to tutoring, STEM after school programs to boost their math and science scores. 25,000 students lives impacted



 **Data reported to the State**

Watch this data results presentation to hundreds of California districts sponsored by the State of California Department of Education who named us a Math Acceleration exemplar.

Creating a STEM Pipeline to Industry



As part of Calculus Roundtable's commitment to transforming society, our Alchemy project is focused on developing a diverse pipeline of next-generation science, technology, engineering and mathematics talent that will lead to a scientific and medical workforce that better reflects the patients we serve.

In 2022, we built upon our success by introducing our Minute Mentoring program where our college fellows receive career advice + and continuing our support of our Scientific and Technical Advisory Relationship (STAR) program/Promoting Inclusivity in Computing Certificate and the Bristol-Myers Squibb Diversity in STEM Fellowship Program.

The program supports a more diverse class of K-12 students and college students receiving a quality, biotechnology-focused, high school education.

"CR works with California districts in powerful, engaging, and relevant instruction that has excites students and produces incredible results."

Steven Zimmer
Deputy Superintendent of Public Instruction
California Department of Education

- 33% of Calculus Roundtable learners have an active IEP
- We have current engagements in 8 districts, 46 Schools, in 5 States
- The largest demographic group of Calculus Roundtable learners is between the grades of 5th and 8th years. 18.8% of all males and 12.8% of all females are in this demographic.
- Our Adult to Learner ratio within an engagement is six-to-one
- Our Early Learners in 3rd grade and below increased by 40%.
- 13 % of Calculus Roundtable learners are K-3.
- 82% of college Fellows graduating from our program exit with a STEM job or STEM-related graduate school.
- 92% of online learners live in communities below poverty.
- Almost 90% of Calculus Roundtable's Daily Active Learners Come from California.
- 1 overseas workshop in Australia with over 8000 participating classrooms
- States outside of California with the largest number of Calculus Roundtable learners include New York (320), Texas (75), Wisconsin (47)



WHAT FOLKS ARE SAYING

"What parents have been waiting for..."



"Possibly, the future of education"

The Mercury News
The Newspaper of Silicon Valley



A promising practice in closing the achievement gap

ED TRUST WEST

" A **game changer** at our school"

Dr. Ida Oberman

Community School for Creative Education
(top 5 schools for growth in African American math test scores in the Bay Area)

yahoo!finance

"Calculus Roundtable is a gateway to establishing solid support systems for cultivating talent."

Awarded Congressional Recognition



for

"Promoting STEM in Communities of Color"



"We are working to expand education opportunities for marginalized communities"



"Every dollar we give to support Calculus Roundtable goes right back into the community."

Lily Rahnema

- Community Engagement Manager
- Chevron Corporation
Richmond Refinery



"Chevron's initial support allowed us to grow the program in Richmond California. Chevron is a partner not only with finance but as mentor to young people in our programs Even though this program is a school elective district data shows it has indirectly increased math scores in participating students; in fact 74 of the 75 students in our program increased their math proficiency by an average of 5.4%"

Jim Hollis

Executive Director
Calculus Roundtable

Our Board



Trinya Topping
School Administrator
Board President

Michelle Grant-Groves
Educator

Giles Baker
Dolby Laboratories

Wendy Horng-Brawer
Corporate Executive

Michelle Bernard
MSNBC



Angie Forster
DigiPen Tech Institute

Margareta Heredia Ed D
San Rafael City Schools

Joel Mackey
Nonprofit Executive

Dr. Kalpana Jain
College Dean of STEM

Riju Krishna
Santa Clara County Office
of Education & Board Secretary



Giavanni Coleman
Hayward Unified
School District

Antoinette Evans
Community Activist
Educator

Dr. Jeremy Frank
NASA

Mireaya Manigual
Angel Investor

Steve Boege, Ph.D
Illumina

Trinya Topping
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Joel Mackey
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Dr. Jeremy Frank
NASA

Giavanni Coleman
Hayward Unified School District

Angie Forester
DigiPen

Our Clients

Student Instruction
 Teacher Training
 High Impact Tutoring
 Workshops & Events
 Research

District	Location	Student Instruction	Teacher Training	High Impact Tutoring	Workshops & Events	Research
Alameda County Office of Education	California	Yes	Yes	Yes	Yes	Yes
Alameda Juvenile Justice Center	California	Yes	No	No	No	No
Baldwin School District	New York	Yes	No	No	Yes	No
Contra Costa County Office of Education	California	Yes	Yes	Yes	Yes	No
Cowlitz Tribe	Washington	Yes	No	No	Yes	No
Hayward Unified	California	Yes	Yes	No	No	No
The Karuk Nation	California	Yes	No	No	Yes	No
Lindsay Unified	California	Yes	No	Yes	No	No
Oakland Unified	California	Yes	Yes	No	Yes	No
Ravenswood Elementry	California	Yes	No	No	No	No
Sequoia Unified	California	Yes	No	Yes	Yes	No
West Contra Costa Unified	California	Yes	Yes	Yes	Yes	Yes
Santa Clara County Office of Education	California	No	Yes	No	No	Yes



Our Clients

Student Instruction
 Teacher Training
 High Impact Tutoring
 Workshops & Events
 Research

District	Location					
Boys & Girls Club of the Peninsula	California					
Education Trust West	California					
Emery Unified	California					
Fremont Unified	California					
Howard University	Washington, D.C					
Los Angeles Unified	California					
The Nevada City Nisenan Tribal Nation	California					
Texas A&M International University	Texas					
CDE SB 1070	California					
Ravenswood Elementry	California					



Our Partners



"CR is a valued partner in delivering STEM education to students in our community."

Ron Gonzales

CEO Hispanic Foundation of Silicon Valley
Former Mayor of San Jose, CA



Our Mentors



Pi Day New Haven Unifies - Union City, CA

Mentors help kids see their future selves

Mentors help students relate to the math and science concepts we teach. It's always better when a real person

BioMedicine

Sadie Whittaker, Ph.D. Head of Clinical Development Cellevole

Darrell Porter, M.D.
Founder & CEO Cellevole

Simon May EVP Life Sciences Bio-Rad Laboratories

Nish Kumar Sr. Global Product Mng Bio-Rad

Paul Mola - CEO Roswell Industries

Vasu Sanghani - Bio-Rad

Engineering

Albert Wright - LAM Research

Devon King - Cisco

Javier Ramos - EBMUD

Entertainment

Giles Baker - SVP Consumer Entertainment

Dolby Laboratories

Common - Musician, Actor

Taye Diggs - Actor

Finance

Johnathan Fassberg - VP Oppenheimer

Carl Davis Jr. Silicon Valley Black Chamber of Commerce

Debbie Schantz - Manager, Marketing

Communication Bio-Rad

Literature

Kate Clifford Larson - Author of

Ginger Garrett - Author of Name Tags

Local & National Politics

Lil Mei Mayor, Fremont, CA

Medicine & Health Care

Dr. Mack Roach - UCSF

Dr. Carlos Mi Chantla

National Nuclear Labs

Julie Kang

Director, Engineering at Chord
Commerce

Kjiersten Fagnan

Natasha Brown - Lawrence Livermore

Tami Swenson

Paleontology

Lisa White - Dir. Paleontology

Museum UC Berkeley

Software

Shakila Pothini - VP of Clinical Software
Bio-Rad

Space Science

Dr. Jeremy Frank - NASA
Ames Research Center

Dr. Vernol Bastleil - NASA
Ames Research Center

STEM Education

Dr. Vera Jakobson

Technology

Jae Park - Google

Sam Washington

Video Game Design

Angie Hoffman

Traye Turner - Sega

Aaron Dean - Ubisoft

Stephanie Dowling - Ubisoft

Joanie Simms - Ubisoft

"We're proud to have Pi Day
in Fremont since 2019"

Lily Mei

Mayor of Fremont, CA



Our Individual Donors

Calculus Roundtable's donors are a dedicated and inspiring group of people who are not satisfied with talking about change. They are an integral part that ensures our collective work gets done.

Governors - \$ 50,000

Anonymous Giver
Charles Parks
Lousie Hollis

Directors - up to \$ 5,000

David Duprey
Jae Park
Katherine Welch
Zaretta Hammond

Contributor-up to \$ 500

Adam Helweh
Amy Kirkman
Arthur Bushkin
Beth Wright
Derek Mitchell
Eva Baker
Harold Lowe
Hattie Carwell
Julie Puryear
Kate Clifford Larson
Katherine Day
Ken Pergrem
Lori Pardi
Nancy Schwalen
Nettie
Wright-Sandoval
Rachael Schoik
Robin Yee-Wilson
Rose Abesamis-Bell
Stan Taylor
Steve Boege
Susan Vandament
Theresa
Gonzales-Lobaco
Tiffany Gilbert
Thomas
Tim Gray
Timothy Dave
Wendy Horng Brawer

Supporter up to \$ 100

Alfredo Mathew
Ali Poursamadi
Amy Hood
Angie Hoffman
Ann Smith
Anna Kingsley
Anne-Marie Whisman Pine
Barb Tafoya Superka
Carol Finley

Carole Dombrowski
Cathy Sullivan-Forinash
Chloe Ross
Craig Liebendorfer
Dan Strauss
Debra Sitton Kemmer
Diane Avenoso
Don McClure, PMP
Evelyn Sanchez
Felicity Hall
Hank Caulkins
Jackie Huss
Jeannette LaFors
Jennifer Dao
Jennifer Farley
Jenny Hayes
Jerri Bedwell
Jim Hollis

Joe Rodriquez
Jon Gudmundsson
Justin Rodriguez
Kamal Shah
Karen Manship
Kelly Haeussler
Kevin Michelini
Lawrence Wilkinson
Lee Stockwell
Lily Jones
Lindon Parsons
Lis Cox, LMFT
Maggie Schumacher
Margaret Howieson
Marie Canney
Martin Floe
Monish Chatterjee
Nancy Sullivan
Nicholas Birns
Pamela Kurtz
Richardo Ismach
Robert Leach
Siu Ya Scott
Stacy
Ziegler-Latimore
Stacy Peterson
Goodall
Troy Scott

“[CR] energizes and enhances the learning experience of students who have been too often overlooked. I’m honored to support their mission.”

Patricia Grace , RN BSN
Senior Quality Director Vitalant



Measuring Progress



BioMed program - Oakland, CA

Performance goals are a good way for us to monitor and measure our progress.

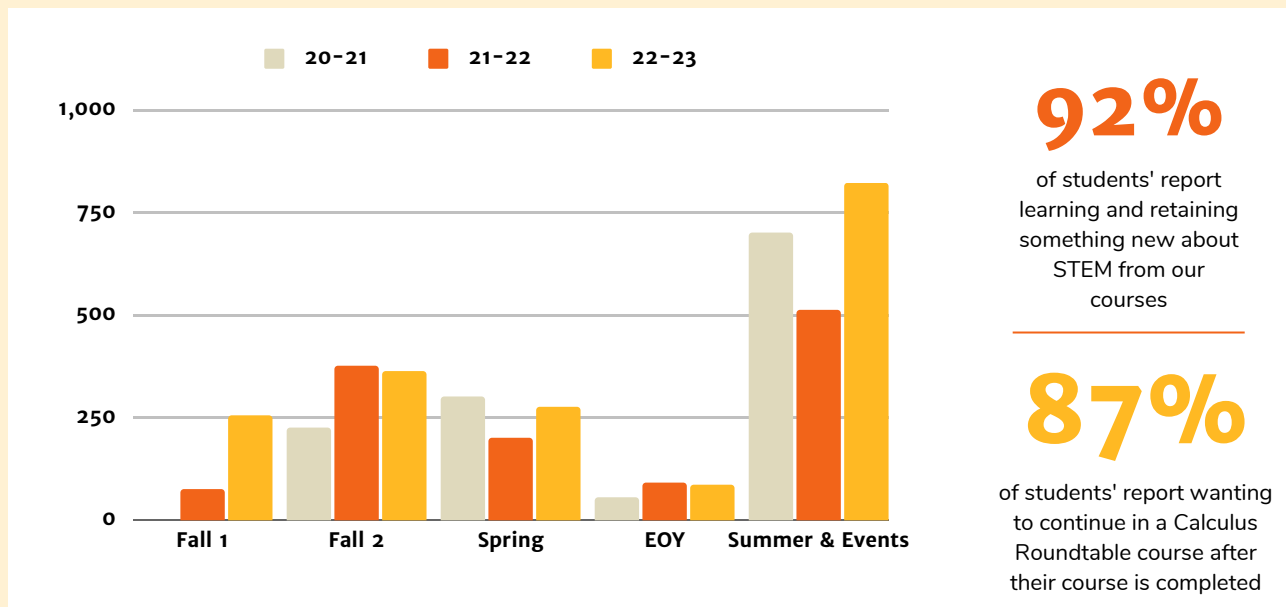
Here is were our three big organization goal based on

Objectives	Measures	Key Results
Grow donors and donations	<ul style="list-style-type: none">• Grow # of funders• Grow # of funder gathering events	<ul style="list-style-type: none">• New funders increased by 32%• 2 events with funders to discuss CRs progress
Diversity of our instructors and instruction	<ul style="list-style-type: none">• Increase the # of coaches, instructors and fellows who mirror the diversity of our students population	<ul style="list-style-type: none">• Doubled our instructional coaches over LY
Student impact	<ul style="list-style-type: none">• Increased math scores on standardized test• students staying in our programs over time	<ul style="list-style-type: none">• Avg math score increased by 5.37%• 42 % have been in CR programs for multiple years

Performance Goals

Calculus Roundtable plays a critical role in addressing the educational inequalities experienced by students of color across California and now throughout the United States. We have actively worked towards this goal for the past decade through our mission of teaching math and science skills to students. An emphasis on data-driven performance indicators underpins our efforts to help students excel in STEM subjects in elementary school, middle and high school. By constantly measuring performance data we remain proud of our continued increase in standardized test scores for our students, boosting student confidence, and reducing absenteeism rates. Our success can be attributed to our targeted focus on students of color and our deep commitment to providing quality education through evidence-based approaches.

Where the students experience our work throughout the year



60%

The percentage of our student, where Calculus Roundtable is there only access to STEM curriculum.

In what ways does Calculus Roundtable impact students success?

While there is no standard way of reporting on success we have selected a few industry-standard indicators to measure growth in test scores and student engagement.

- **Direct instruction w/students** -Our most important quantitative data, how many hours are we in front of students
- **Test scores over time** - CR students participating in multiple CR units
- **District math articulation** - Our curriculum alignment to the scope and sequence of the school
- **Educational research** - How often do we publish new research, requested to participate in landmark research, quoted in education circles

Our Regional Events



Pi Day Fremont, CA

"It started as an event. Now, it's embedded into our curriculum"

Glynis Mason, Principal
Ardenwood Elementary School,
Fremont, CA

Calculus Roundtable Hosts Regional Events

Throughout the year, Calculus Roundtable hosts STEM events. Students, regardless of their school district participate in activities that are culturally inclusive and family friendly.

Major CR Events	Activity / Project	Outcomes
Pi Day!	Math activities and in class mentors explain the famous formula	<ul style="list-style-type: none"> Over 2000 Bay Area kids joined through their schools Mentors from NASA, Bio-Rad & others
Bay Area Black Youth Techathon	African-American students explore fun math and science concepts.	<ul style="list-style-type: none"> Bay Area students collaborated with science observatores in Africa to study outer space
Latinos in Engineering	Lantinx families conduct hands-on experiments in scientific spaces	<ul style="list-style-type: none"> Over 120 families visited the SF Exploratorium Society of Hispanic Professional Engineers

HBCU Pilgrimage



Every year we take a group of junior and senior students from our programs and take them to a historic black college university and have them experience a science or math class on campus.

Students experience an authentic, first-hand look at college in a way they may never have imagined. Students some of whom had never left their own communities, make their way across the country to tour and attend classes for a day.

"We strive for our students to envision their future selves in a vibrant college environment", says Executive Director, Jim Hollis. "We want our students in an environment where they can immerse themselves in the scent of fresh grass, feel the weight of books in their hands, and be enveloped by the resounding echoes of the lecture hall. Witnessing thousands of college students, just like them, serves as an unparalleled source of motivation for our young potential scientists and mathematicians. After spending three transformative days, they not only return to their schools brimming with inspiration but also become beacons of inspiration themselves, igniting the spirits of others."



HBCU Scholars Howard University - Washington, D.C.

"There is no substitute for the experience of being on campus. There's no substitute for feeling like you belong."



Our Research

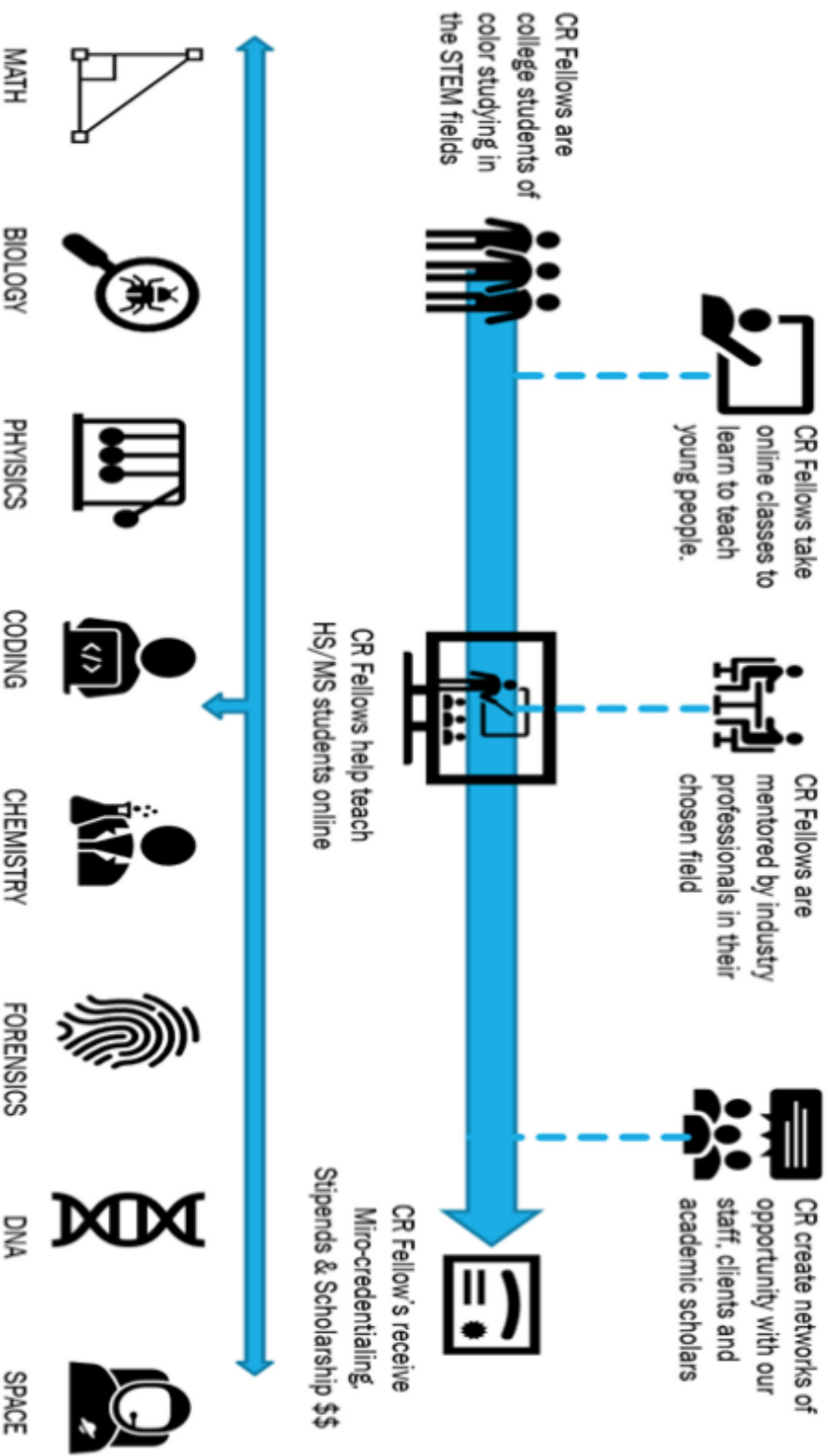


To truly teach, we must first, learn. CR is on the forefront of researching teachers and students of color achieving in STEM.

Research and Achievements

Key Research Areas	Activities/ Projects	Data / Outcomes
Students of Color in STEM Education	<ul style="list-style-type: none"> • CA Department of Education Accelerated Learning Webinar for Mathematics 	<ul style="list-style-type: none"> • Top 50 Universities for Hispanic Students in STEM Guide. • COVID-19 Parent Home Survey
Retention of STEM Teachers of Color	<ul style="list-style-type: none"> • California STEAM Symposium • Beyond 100K 	<ul style="list-style-type: none"> • Presented research findings at the California. STEAM Symposium Anaheim, CA • Belonging Lit Review
Measuring the Impact of Equity	<ul style="list-style-type: none"> • Beyond 100K • Education Trust West CORE collective. 	<ul style="list-style-type: none"> • Measuring the retention of STEM teachers of color. • two-year subgrant program empowering communities most affected by an inequitable California's education systems. .

Diversity in STEM Fellowship



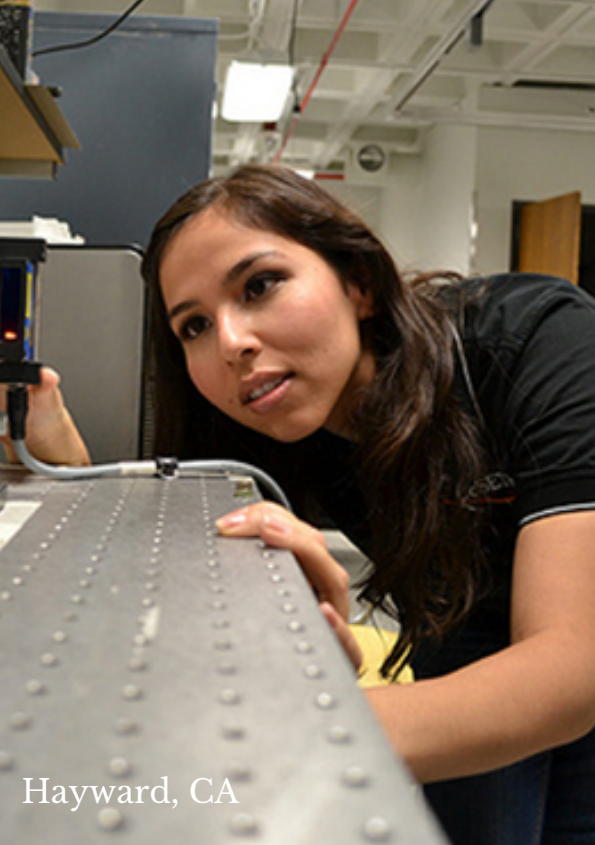
Our Fellowship Model



North Richmond, CA



Longview, WA



Hayward, CA

Thank you for your continued support.



Contact Us

Calculus Roundtable
510-316-6084

www.calcround.org 

@calcround 