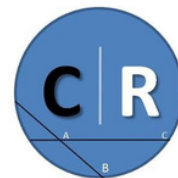


CALCULUS ROUNDTABLE



BioMed /BioTech Courses



Led by Bio-Pharma Leaders of Color (BLOC)





CALCULUS ROUNDTABLE

www.calcround.org

BioMed

The Silicon Valley Black Chamber of Commerce proclaimed the 'BLOC by Block' project is, "The most meaningful biotechnology K-12 program for students of color in the country."

Aligns with NGSS & National Health Science Standards.

- Cell Therapy
- Molecular Biology
- Neuroscience
- 3D Cell Rendering
- Environmental Science
- DNA Extraction
- Inside the Science Lab

'BLOC by Block' is a CTE program initiative For High School and Middle School Science Students Led by Bio-Pharma Leaders of Color (BLOC)

NOW LIVE
on the **STEM Broadcasting Network**



What is the STEM Broadcasting Network?



The Calculus Roundtable Stem Broadcasting Network (SBN), is the online platform of live classes, recorded lessons, games, tutoring, and special STEM guests from careers, laboratories, and research sites from around the world.

STEM Broadcasting Network is the perfect place for students to learn about science, technology, engineering, and mathematics.

Our online education platform offers a variety of engaging content that brings STEM to life. We have something for everyone, whether you're just starting out in your education or you're looking to further your knowledge in these important fields.

With our platform, you can learn at your own pace and get the most out of your education. You'll have access to top-notch instructors who will help you grow into an expert in these vital subjects.

Sign up today and get started on your journey to a successful future in STEM!



2021-22 LESSON PLAN

Schools receive 8 - 10 units of content to be delivered in four subject and content areas, seen below. Lessons are flexible to provide in multiple creative ways. Your CR Instructional Coach can help build a curriculum, short lessons, or project-based activities based on the subject and themes listed below.

2 - 4 weeks **Molecular Biology -
DNA Extraction**

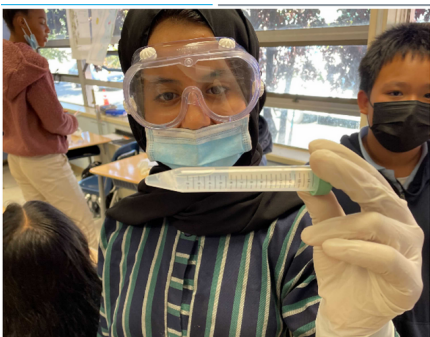
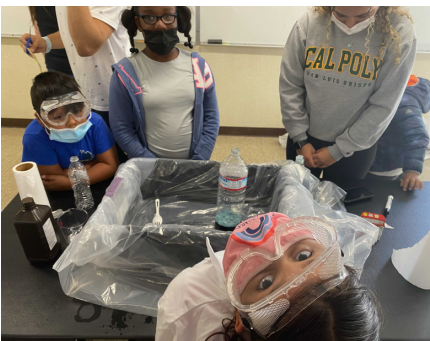
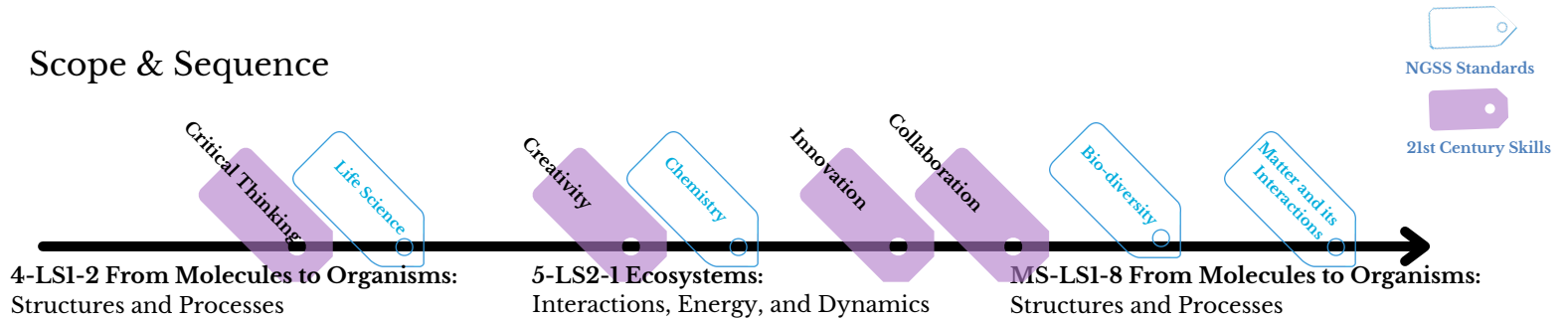
2 - 4 weeks **Microbiology -
Viruses & Bacteria**

1 - 2 weeks **Neuroscience -
Brain Hat**

3 - 4 weeks **Environmental Science -
Water Filtration & Treatment**

We use elements from many different standards and approaches. Every lesson is introduced at a grade level. The standards however, span multiple grade levels. The All subjects and standards align to a *CR specific* scope and sequence that follow NGSS standards. Each unit is modular making rearranging easy.

Scope & Sequence





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BioTech 101100

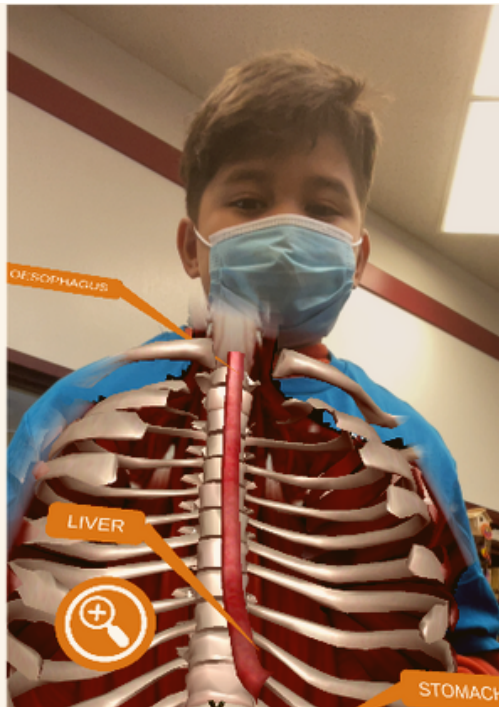
The Silicon Valley Black Chamber of Commerce proclaimed the 'BLOC by Block' project is, "The most meaningful biotechnology K-12 program for students of color in the country."

Aligns with NGSS & National Health Science Standards.

- Medical Engineering
- Solar Robotics
- Code & Create Working EKG Monitor
- 3D Cell Rendering
- Environmental Science
- DNA Extraction
- Inside the Science Lab

'BLOC by Block' is a CTE program initiative For High School and Middle School Science Students Led by Bio-Pharma Leaders of Color (BLOC)

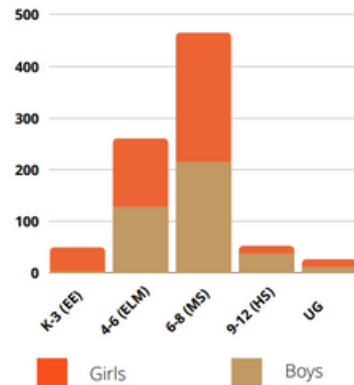
NOW LIVE
on the STEM Broadcasting Network



2 OF THE TOP 5

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

12:1
Student to STEM Mentor Ratio





CALCULUS ROUNDTABLE

www.calcround.org

Bio-Tech/ Bio-Med STEM Curriculum For High School, Middle & Elementary School Science Students Led by Bio-Pharma Leaders of Color (BLOC)

The Silicon Valley Black Chamber of Commerce proclaimed the 'BLOC by Block' project is, "*The most meaningful biotechnology K-12 program for students of color in the country.*"

The San Jose Mercury News called Calculus Roundtable, "*..possibly the future of education*".

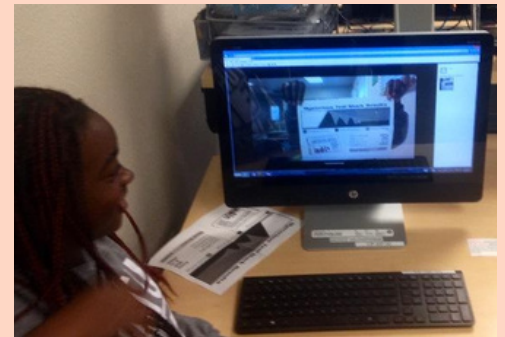
Thanks to our amazing partners and curriculum contributors:

San Jose Mercury News



The Curriculum:

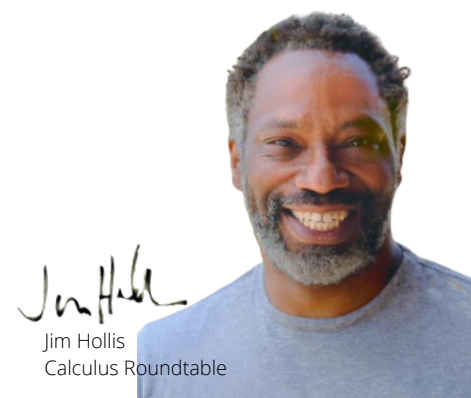
- Emphasizes the importance of providing STEM in communities of Color and curricula in failing schools where science and math are lacking.
- Features Biopharma Leaders of Color who inspire young people to dream big, and teach them the importance of science, innovation, and believing in themselves to achieve whatever they set their minds to.
- Is part of the Calculus Roundtable Stem Broadcasting Network (SBN), which is the online platform of live classes, recorded lessons, games, tutoring, and special STEM guests from careers, laboratories, and research sites from around the world.



Calculus Roundtable (CR) Who We Are:

Founded by Jim Hollis in 2013, Calculus Roundtable is an impactful STEM organization for minority students and students from underserved populations.

The program is well established in California with plans to expand across the country. Support engaging Pre-K through 12th grade students in hands-on, project-based learning, exposing students to knowledge and workforce opportunities in related areas of science, technology, engineering, & math (STEM). Their Diversity in STEM Fellowship hires college students of color to teach the younger students.



Jim Hollis
Calculus Roundtable

WHAT FOLKS ARE SAYING

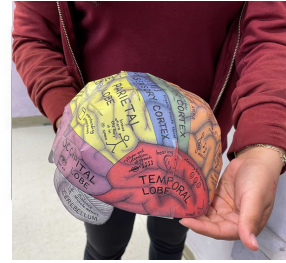
"What parents have been waiting for..."

ABC Channel 7



"Possibly, the future of education"

The Mercury News
The Newspaper of Silicon Valley



A promising practice in closing the achievement gap

ED TRUST WEST

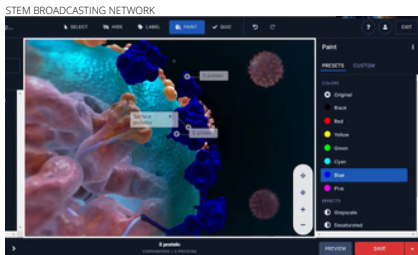
"Calculus Roundtable is a gateway to establishing solid support systems for cultivating talent."

yahoo!finance

"A game changer at our school"

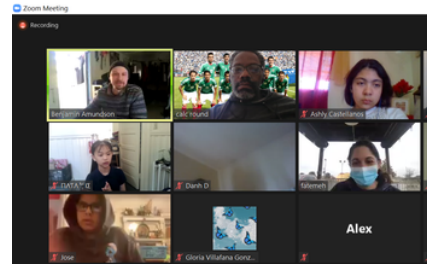
Dr. Ida Oberman

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



Example of Student Work

6th graders use online virtual anatomy tool to capture and redesign cells.



Mentors Embedded

2 staff accompany most online classes. We also include REAL scientists, like Maj. Fatemeh in discussion on artificial limb design.

PRESS:

- [Bay Area Black Youth Tech-A-Thon equips African American kids for jobs in technology, arts in Silicon Valley - ABC7 San Francisco \(abc7news.com\)](#)
- [New tool in history class: 'Assassin's Creed' video game \(mercurynews.com\)](#)
- ['A Space for Girls' film takes Richmond program out of this world | Richmond Standard](#)

Standard

- [Teacher testimony: Dr. Thompson's Story on Vimeo](#)

NOTE: All Calculus Roundtable programs are externally evaluated by Texas A&M International University. Their findings are shared to inform best practices with STEM teaching and learning at national and international conferences, education journals, and professional development with teachers.

