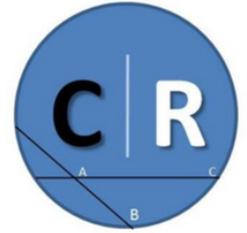
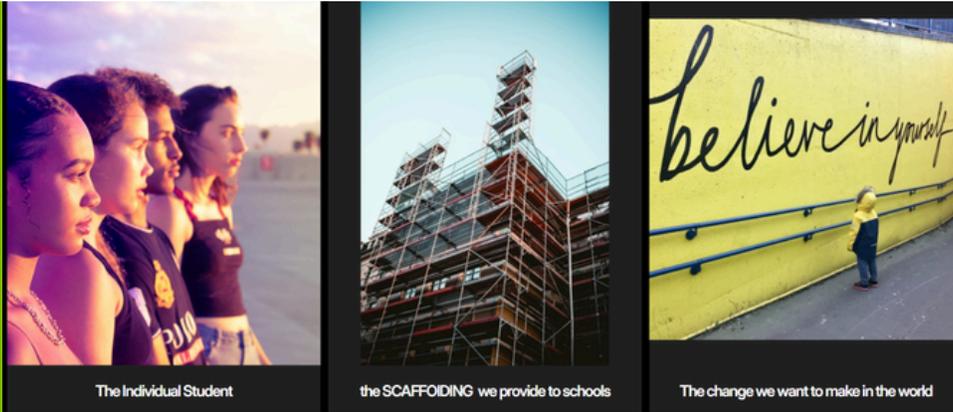


## HOW OUR DISTRICT PARTNERSHIPS WORK



## CALCULUS ROUNDTABLE

# CALCULUS ROUNDTABLE'S APPROACH TO STEM EDUCATION



## 1. The Individual Student

At its core, Calculus Roundtable begins with the individual learner. Much like a personal trainer develops a plan tailored to a client's strengths and growth areas, Calculus Roundtable works to strengthen each student's cognitive confidence, curiosity, and problem-solving ability. Students are encouraged to see themselves as capable thinkers and future STEM contributors.

Through mentorship, culturally responsive lessons, and real-world problem solving, the program helps students develop:

- Mathematical and analytical confidence
- Persistence in tackling complex challenges
- A sense of identity as a STEM learner
- Ownership of their intellectual growth

In this sense, Calculus Roundtable acts as a personal trainer for the mind, building the intellectual stamina students need to succeed in STEM pathways.

## 2. Scaffolding for Schools

The second image represents the scaffolding that supports educational systems. Rather than focusing only on individual interventions, Calculus Roundtable builds structures that help schools sustain strong STEM learning environments.

This scaffolding includes:

- Proven lesson models that integrate math, science, history, and real-world inquiry
- Teacher support and professional development that strengthens instructional practice
- STEM Fellows mentorship pipelines connecting high school and college students to younger learners
- Program frameworks that districts can replicate and adapt
- Just as scaffolding allows a building to rise safely and securely, these structures help schools develop lasting, evidence-based practices that support generations of students.

## 3. Inspiring Change in the World

The final image speaks to the larger mission: building belief and possibility in young people. When students gain confidence in their ability to think mathematically and scientifically, they begin to imagine themselves as engineers, researchers, innovators, and community problem-solvers.

Calculus Roundtable's work therefore extends beyond classrooms. It contributes to:

Expanding STEM participation among historically underrepresented students

Developing the next generation of diverse STEM leaders

Cultivating a culture where curiosity, inquiry, and perseverance are valued

## 4 Bringing the Three Together

Calculus Roundtable operates at the intersection of personal growth, educational infrastructure, and societal impact:

- The student gains cognitive strength and confidence.
- The school gains proven tools and instructional scaffolding.
- The world gains a generation of young people who believe in their ability to contribute through STEM.

In this way, Calculus Roundtable functions both as a trainer of individual minds and a builder of educational structures, ensuring that inspiration and opportunity grow together.

# HOW OUR DISTRICT PARTNERSHIPS WORK

## The Calculus Roundtable Partnership Model for Schools and Districts

Calculus Roundtable partners with school districts to strengthen math and science learning through high-quality, hands-on STEM programs that complement what schools are already doing.

### **Our approach is simple:**

We work alongside district leaders, principals, and teachers to deliver programs that increase student engagement, strengthen conceptual understanding, and expose students to real-world STEM careers.

Each partnership is designed to support district priorities—whether that means improving math achievement, expanding STEM opportunities, or providing targeted tutoring support.

### **Step 1**

#### **Listening to District Goals**

Every partnership begins with a conversation.

District leaders, school administrators, and instructional teams work with Calculus Roundtable to identify where additional STEM support can have the greatest impact.

This may include:

- Strengthening math achievement in specific grade levels
- Expanding STEM enrichment opportunities
- Supporting the California Math Framework
- Providing high-impact tutoring
- Increasing student interest in STEM careers
- Supporting culturally inclusive STEM instruction



Our goal is not to replace what schools are doing—but to help districts accelerate the work they have already prioritized.

# HOW OUR DISTRICT PARTNERSHIPS WORK

## Step 2: Selecting the Right Programs

Once priorities are clear, we work with district staff to select programs that best match their goals and student needs.

Calculus Roundtable programs are designed for flexibility and can operate:

- During the school day
- After school
- As tutoring programs
- As STEM clubs or enrichment
- As short-term courses or multi-week series

### Programs may include experiences such as:

- Girls Math Club
- Global Weather Station
- Think Like a Game Designer
- Robotics and Engineering programs
- STEM career exploration courses
- High-Impact Tutoring

Each program emphasizes hands-on learning, collaboration, and real-world application of math and science concepts.



## Step 3: Working Inside Schools

Calculus Roundtable instructors and fellows work directly with students in classrooms, after-school programs, and small-group tutoring environments.

Our instructional teams include:

- trained STEM instructors
- college STEM fellows
- industry volunteers and mentors

Together, they help students explore complex math and science ideas through activities, projects, and problem-solving challenges that build both skill and confidence.

# HOW OUR DISTRICT PARTNERSHIPS WORK

## Step 4: Connecting Students to the Real World

One of the most powerful elements of a Calculus Roundtable partnership is the connection students gain to the broader STEM ecosystem.

Through our network of partners, students may interact with:

- engineers
- scientists
- university researchers
- technology professionals
- industry mentors

These experiences help students understand that the math and science they are learning today connect directly to the careers of tomorrow.

## Step 5: Measuring Impact

Calculus Roundtable works with districts to monitor participation, engagement, and academic outcomes.

Across our partnerships, we track indicators such as:

- student participation
- program completion
- STEM interest and confidence
- improvements in math achievement
- student feedback and engagement

Over time, this data helps districts refine programming and expand what works best for their students.



# HOW OUR DISTRICT PARTNERSHIPS WORK

## A Partnership Built Around Students

At its core, the Calculus Roundtable model is about helping students see themselves in STEM.

When students experience math and science through real problems, real mentors, and real opportunities, learning becomes more than a subject—it becomes a pathway.

Together with school districts, we are building environments where students can explore, experiment, and imagine their future in STEM.

**“CR provided consistency and clarities to the math initiatives we thought we knew”**



### Interested in Partnering?

Calculus Roundtable currently works with districts, schools, and community organizations throughout California and the Bay Area.

If your district is interested in expanding STEM learning opportunities, we would welcome a conversation.

Contact:  
contactus@calcround.org  
510-316-6084