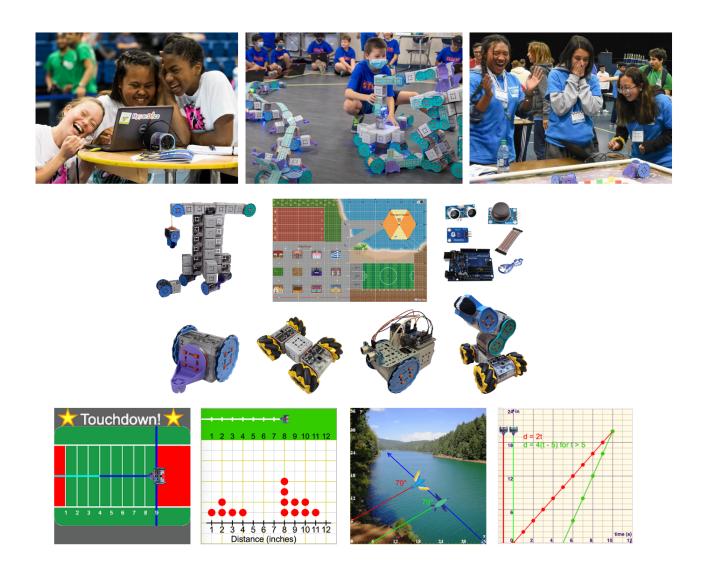




Boosting Engagement & Achievement in Math, CS, & Engineering Design with Robotics



The Barobo program, developed in a decade-long partnership with the C-STEM Center at the University of California, Davis, fosters hands-on learning based on real-life problems and supports learning in multiple contexts, including *classroom*, *remediation*, *intervention*, *supplemental*, *enrichment*, and *accelerated learning*.

Barobo's patented modular Linkbot™ robots and RoboBlocky™ Integrated Learning Environment, with options for both block-based and C/C++ text-based programming (www.roboblocky.com and www.roboblocky.com/curriculum), are optimized for TK-12 cross-curricular, collaborative learning in:

- Mathematics
- Computer science and programming
- Computational thinking
- Engineering design and robotics





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Success Stories

Through the cross-curricular combination of mathematics, computer science, and engineering design with robotics, students engage in authentic learning and build their mathematical and thinking skills through real-life, applicable strategies. Here are just two of our success stories:

• After implementing the Barobo/C-STEM program district-wide, Redlands USD (California) students achieved *13% higher math scores in 35 classes*.

2023 Smarter Balanced Math Test Scores In Redlands Unified School District

C-STEM Students vs All Students

Grade	4	5	6	7	8	Total
Met & Exceeded	77	79	80	31	35	302
Total	143	184	138	80	94	639
C-STEM Percentage	54%	43%	58%	39%	37%	47%
RUSD Percentage	45%	32%	36%	31%	34%	37%

McPherson Magnet School (K-8) in Orange, CA increased state testing math scores by 72% over 4
years! McPherson now has the highest math scores for 3rd grade among the 27 elementary schools in
its district.

