

UC DAVIS

C-STEM CENTER

"As a teacher of mathematics for the past 28 years, I have to say that this is the best program I have worked with to inspire and focus on most struggling learners in Algebra."

Susan Johnston
Math Teacher
Livermore High School



The C-STEM program transforms K-14 computing, science, technology, engineering, and mathematics education in both formal and informal programs, with a focus on Algebra. The C-STEM Math-ICT curriculum provides K-12 students with up to 13 years of computer science education through integrated learning of math and science with hands-on coding, making, and robotics. Previous research studies show that computer science alone does not help students' math achievement. However, through over a decade of dedicated research and development, C-STEM now has a track record in transforming math education with higher achievement through computing.

C-STEM Success Stories by teachers with no prior coding experience:

<http://c-stem.ucdavis.edu/about-us/success>

For at-risk and gifted students alike, **C-STEM program significantly increases math performance and closes achievement gap:**

American Canyon Middle School, American Canyon, CA

100% of C-STEM Integrated Math I students scored "Standards Exceeded" or "Standards Met" on the Common Core Smarter Balanced Test (**94%** "Standards Exceeded" and **6%** "Standards Met.")
37% of students scored **the highest score possible**, compared to the district wide **33%** and school-wide **38%**.

Livermore High School, Livermore, CA

In a C-STEM Algebra 1 class consisting of **84%** "at-risk" students with a GPA below 2.0, extreme attendance issues, very low socio-economic backgrounds, or identify as foster or migrant education students, students scored an **83% average on the district final exam** on Algebra (versus **68%** district wide average using the same exam). The **course pass rate is 100%** with an average course grade **84%**.

Hillcrest High School, Riverside, CA

94% of students in C-STEM Integrated Math II were able to earn passing marks, compared to the site average of **61%** passing rate in non C-STEM Integrated Math II courses.

Northwest Local School District, Cincinnati, OH

77% of the students in the Applied Math class using C-STEM curriculum **passed the 8th grade Math AIR assessment** versus **16%** of the students in Applied Math who passed in the previous year (not using C-STEM curriculum).

In only one week or less, teachers, through C-STEM Professional Development with hands-on experience, can bring computing and robotics into their classroom teaching.

"Oh my gosh! I barely can contain myselfsoooo fun!!! So challenging and so rewarding at the same time!!!"

Jessica Fernandez
Math Teacher
Glenn Edwards Middle School

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EDUCATION

