

NMSTA  
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NMCTM

# SOAR TO GREATER HEIGHTS

NM STEM Conference  
Las Cruces, NM



## BOOTSTRAP

Bootstrap:Algebra



### Algebra is the foundation for STEM careers

*Success in algebra is critical to students' high school graduation, college enrollment, and earning potential. Unfortunately, many students disengage with math over frustrations with algebra. By integrating algebra with computing, Bootstrap:Algebra fosters student growth in both subjects while helping schools meet logistical and staffing challenges. Using Bootstrap:Algebra as part of a standard algebra class ensures equitable access; since every student takes algebra, Bootstrap:Algebra reaches all students - not just those who self-select by race, gender, or income.*

### Computing and Algebra: Together!

*In Bootstrap:Algebra, students program a videogame of their own design, learning core algebra concepts like order of operations; function composition; function definition; inequalities; piecewise functions; and the distance formula. This is done amidst important computer science concepts such as reactive programming, datatypes, testing, and code reviews. Our explicit connection to algebra is unique among programming tools for beginners, and we've published results showing real impact in algebra.*

### Aligned to National & State Standards

*We provide complete lesson plans, student materials, software, and teacher-training workshops. Our lessons are aligned to various state and national standards, and we continually assess our impact on student math achievement. Tens of thousands of students across the country have found success with Bootstrap:Algebra implemented in middle and high school math classes, IT/CS classes, media classes, standalone electives, and after-school programs.*

### What is the NMCTM & Bootstrap:Algebra Scholarship?

Bootstrap provides curricular modules for students ages 12-16, and Bootstrap:Algebra is a 20 hour curriculum which teaches algebraic and geometric concepts through computer programming. Unlike many integrated mathematics programs, Bootstrap:Algebra puts mathematics first. Starting with the standards of mathematics from Algebra 1, Bootstrap then teaches students the standards by creating and designing a video game.

### Details of the Scholarship

- Begin your application for the scholarship at [nmctm.org/scholarships](http://nmctm.org/scholarships)
- If you have questions, email: [nmctm@nmctm.org](mailto:nmctm@nmctm.org)

### Registration

Also need to register for the conference? Registration and more information are available online at [nmctm.org/registration](http://nmctm.org/registration).

### How is this scholarship funded?

This scholarship is managed and funded by the NM Council of Teachers of Mathematics. One of our charges is to improve mathematics instruction across the State, and it is our hope that in incentivizing this professional development opportunity we can help achieve that end. Additionally, this particular workshop is unique and unites Computer Science, Science, and Mathematics instruction.

### How are you reimbursed?

Recipients will be given the first of the \$50 stipend upon attending the first workshop on October 28th.

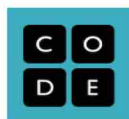
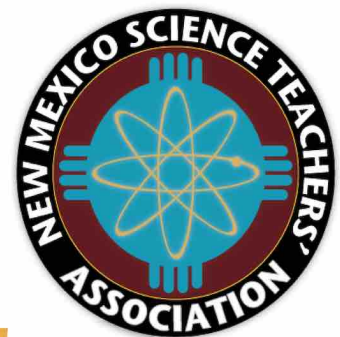
The second stipend of \$50 will be awarded when the recipient attends the follow up training in the Spring.

### Notice of Acceptance

Applicants will be emailed notice of their acceptance or rejection by September 15th - 25th.

### Questions

Please email [nmctm@nmctm.org](mailto:nmctm@nmctm.org)



**OCTOBER 27-29, 2017**