

# Summer Academy in Science, Technology, Engineering, & Mathematics, 2016

Monday, June 20 - Friday, June 24, 8:00 am-3:00 pm

*for Elementary and Middle School Students*



- Have a fun-filled learning experience through challenging tasks in an enjoyable environment.
- Engage in Science, Technology, Engineering, and Mathematics (STEM) activities through hands on projects and collaborative activities.
- Reflect on the way you think and feel about learning.
- Learn to use dynamic mathematics software and other visual creation software to explore STEM concepts.
- Improve your reasoning and thinking skills.
- Earn California State University, Fresno Certificate of Accomplishment.
- Meet new friends, expert teachers and university professors at Fresno State.

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## Build a roller coaster and explore *Kinetic and potential energy*

### Elementary school STEM concepts

Build models for scientific exploration and energy suitable for ages 10-11. Learn key mathematical concepts such as shapes, dimensions, measurements angles, and area and volume. Investigate 3D objects and explore concepts through hands-on projects, activities, real life problems and the use of technology, science and engineering.

Appropriate for grades 4-6.

### Middle school STEM concepts

Build models for scientific exploration and energy. suitable for ages 11- 14. Learn key mathematical concepts such as mass, velocity ratio, proportions, area, volume and surface area, through hands-on projects and activities. Solve real life problems using technology, science and engineering.

Appropriate for grades 6-9.

**Registration by May 15 \$185\***

**Registration after May 15 \$235\***

\*Fees include materials, handouts, morning snacks, lunch, and the use of labs and software.

For additional information, to register or to see last year's workshop activities please go to:

[www.fresnostate.edu/mathacademy](http://www.fresnostate.edu/mathacademy)

or contact:

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