



## Outdoor Education

Each year the Math Academy takes a trip to a destination where students are given the time to team build and do some hands on education in all academics. Past trips have included:

- **CIMI - Catalina Island Marine Institute**
- **YOSEMITE INSTITUTE**
- **PALI - Outdoor Education Camp**
- **JPL**
- **Math behind MAGIC MOUNTAIN**
- **MATH COUNTS**
- **Physics and KNOTTS BERRY FARM**



## Hands on Learning

### HOW TO APPLY

- Fill out online application
  - submit standardized test scores
  - submit grades (marks of D, F or U in any course will disqualify your math academy application)
  - take the math academy exam. Your application is your sign-up for the exam, administered on 2/6/18
- You will be notified by email about your **ACCEPTANCE** in **MARCH**



### **MILLIKAN MATH ACADEMY**

5041 Sunnyslope Ave.  
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# Millikan Math Academy



## High Honors All Academics



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## Small Learning Community

**Millikan Math Academy** is a 3-year program that places students in **ALL HIGH HONORS ACADEMIC COURSES**. It is designed for students who excel in mathematics and wish to advance their content understanding through games, projects and problem solving through cooperative and independent **“PROBLEM OF THE WEEK”** (POW) format. POWs enrich conceptual understanding of the standards and logical reasoning.

### Pre-Requisites:

#### 6<sup>th</sup> Grade – Pre-Algebra or Algebra Placement

- Pre Algebra/Algebra Placement Exam
- Scores of mostly 4's on current report card

#### 7<sup>th</sup> Grade – Algebra

- Algebra Readiness Exam
- Recommendation from 6<sup>th</sup> grade teacher
- No D's, F's, U's in all courses
- Positive Role Model

#### 8<sup>th</sup> Grade – GEOMETRY

- Success in Algebra of A or B
- No D's, F's, or U's in all courses
- Positive Role model

All Math courses will be scheduled for 1½ hours during the math course and homeroom.

All students will travel together as a core to all **HIGH HONORS ACADEMIC COURSES**.

**Test Dates: Check Math Academy Website**

## Q&A

**Do Math Academy students have electives?** All students in the Math Academy do get to take an elective. In 6<sup>th</sup> grade they have the option of taking the wheel or Music.

**Do the Math Academy Students use technology and engineering in the classroom STEM?** Students are given the opportunity to present all projects as screencasts, podcast, film, power points, and smart board activities or on paper. Technology is used through out the 3 years as well as, concepts or engineering are stressed in Geometry on such project as bridge building competitions.

**What kinds of games or hands-on activities do Math Academy Students partake in?**

- Virtual stock market game where student are given a virtual \$100,000
- Mystery of the missing Laundry graphing activity
- building polyhedrons out of toothpicks
- gumdrops and deriving formulas that relate the vertices, faces and edges.

**WHAT IS PI DAY?** PI day is the day we celebrate math at Millikan. Math Academy sponsors a memorization contest. Last year's 1<sup>st</sup> place winner memorized 1106 digits. 1<sup>st</sup> place earns \$314.00. CBS, ABC, and daily news were all there to celebrate.