

# Advanced Math Options at La Cañada High School

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# Overview



- •Graduation Requirements
- 2. Current Math Pathways at LCHS
- 3. Current Math Courses Offered at LCHS
- 4. Outside Advanced Math Courses
- 5. What to do?





#### "Don't let school interfere with your education."

#### Mark Twain

- State & LCHS: 2 years of enrollment in math with at least Algebra I (i.e. LC Math I).
- CSU: 3 years of math required including Algebra 1, Geometry, and Algebra II. 4 years recommended.
- UC: "three years of college-preparatory mathematics that include the topics covered in elementary and advanced algebra and two- and 3-dimensional geometry." 4 yrs recommended.
- Select Private Universities: 4 years of math. I AP math.
- Elite STEM & Ivies: 4 years of math; 2 AP math.



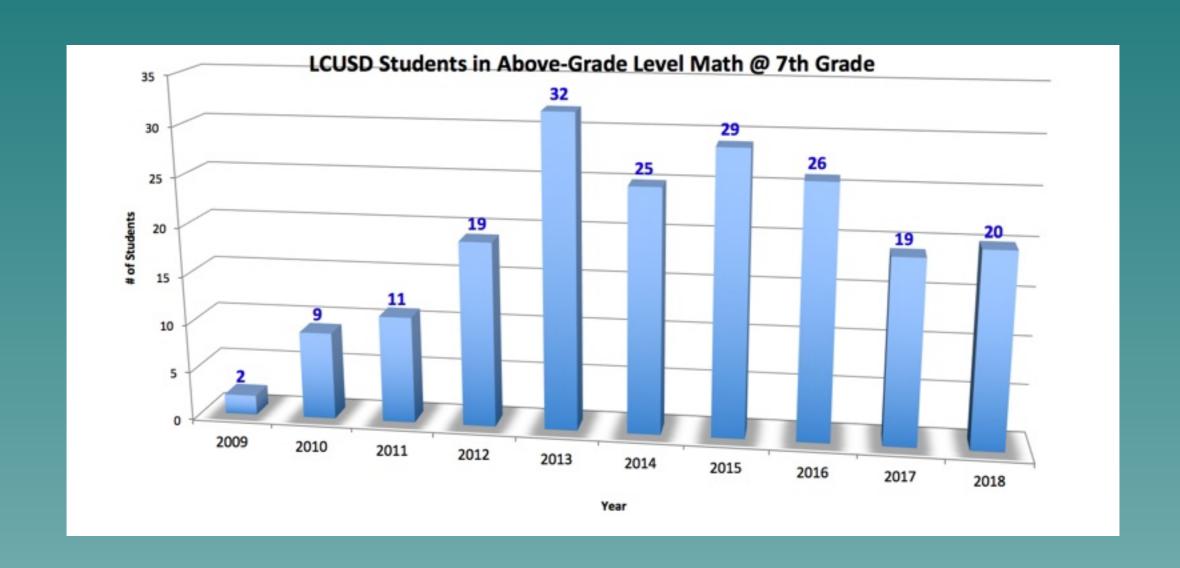


## A couple of facts to ponder:

- Last year, no LCUSD students passed into the equivalent of Algebra I when they took the Middle School math placement exam in May of 2017.
- In Fall 2015, only 3.3% of LCUSD 7th graders enrolled in the equivalent of Algebra I or above.
- Meanwhile at Cupertino Union School District in Silicon Valley,
   44% of 7th graders were in equivalent of Algebra 1 or above.
- This is not by accident, rather part of a deliberate decision by LCUSD staff to slow down math acceleration in the district.











#### • As of 2018-19

7th Grade	8th Grade	9th Grade	10th Grade	11th Grade	12th Grade
7th Grade Common Core	8th Grade Common Core	LC Math I	LC Math 2	LC Math 3	LC Math 4
College Prep	Track				
7th Grade CC Advanced	8th Grade CC Advanced	LC Math I Advanced	LC Math 2 Advanced	LC Math 3 Advanced	AP Calc AB, AP Calc BC, or AP Stats
Advanced Col	lege Prep Track				





#### • As of 2018-19

#### Where's Algebra I, Geometry and Algebra 2?

7th Grade	8th Grade	9th Grade	10th Grade	11th Grade	12th Grade
7th Grade Common Core	8th Grade Common Core	LC Math I Algebra I	LC Math 2 Geometry	LC Math 3 Algebra 2	LC Math 4
College Prep	Track				
7th Grade CC Advanced	8th Grade CC Advanced	LC Math I Advanced	LC Math 2 Advanced	LC Math 3 Advanced	AP Calc AB, AP Calc BC, or AP Stats
Advanced Co	llege Prep Track				

# LCHS: Pre-Common Core Math Pathways



• Before 2013

7th Grade	8th Grade	9th Grade	10th Grade	11th Grade	12th Grade		
Pre-Algebra	Algebra I	Geometry	Algebra II	Pre-Calc	Calculus		
College Prep	College Prep Track						
Algebra I	Geometry	Algebra II	Pre-Calc	Calculus	Higher Math: •Statistics •Discrete Math •Multi-variable Calculus		
Advanced Co	llege Prep Track				Saicaras		





# • I year acceleration

7th Grade	8th Grade	9th Grade	10th Grade	11th Grade	12th Grade
7th Grade CC Advanced	8th Grade CC Advanced	LC Math I Advanced	LC Math 2 Advanced	LC Math 3 Advanced	AP Calc
Advanced Col	lege Prep Track				
8th Grade CC Advanced	LC Math I Advanced	LC Math 2 Advanced	LC Math 3 Advanced	AP Calc	AP Stats, Discrete Math, or MV Calc
I-year acceler	ation (unofficial)				117 Calc





• 2 years acceleration

7th Grade	8th Grade	9th Grade	10th Grade	11th Grade	12th Grade	
7th Grade CC Advanced	8th Grade CC Advanced	LC Math I Advanced	LC Math 2 Advanced	LC Math 3 Advanced	AP Calc	
Advanced College Prep Track						
LC Math I Advanced	LC Math 2 Advanced	LC Math 3 Advanced	AP Calc	AP Stats or MV Calc	Linear Algebra	
2-years accele	ration (unofficia	<b>I</b> )				

# Current Math Courses at LCHS



- LC Math I P (MA5031):
- LC Math I Adv P (MA5032):
- LC Math 2 P (MA5033):
- LC Math 2 Adv P (MA5034):
- LC Math 3 P (MA5038):
- LC Math 3 Adv P (MA5039):
- LC Math 4 P (MA5036):
- Advanced Math Topics (MA5035):
- AP Calc AB P (MA5013):
- AP Calc BC P (MA5014):
- AP Stats HP (MA5015):
- Discrete Math P (MA5037)

# Current Math Courses at LCHS



- LC Math I P (MA5031): Carruthers, Cyhaniuk 7 sections total
- LC Math I Adv P (MA5032): Gruss, Saavedra, Nunez 7 sections
- LC Math 2 P (MA5033): Carruthers, Gruss 4 sections
- LC Math 2 Adv P (MA5034): Nunez, Saavedra 5 sections
- LC Math 3 P (MA5038): Leu, Quinn 5 section
- LC Math 3 Adv P (MA5039): English 4 sections
- LC Math 4 P (MA5036): Lee 2 section
- Advanced Math Topics (MA5035): Quinn I section
- AP Calc AB P (MA5013): Calm 3 sections
- AP Calc BC P (MA5014): Calm 2 sections
- AP Stats HP (MA5015): Gruss, Quinn 3 section
- Discrete Math P (MA5037) English I section

## Outside Advanced Math



#### Multivariable Calculus:

- Pasadena City College
- Glendale City College
- Coastline Community College (online)
- Univ. of North Dakota (online)
  - \$1,200. Self-paced. 9 months to complete.
- Univ. of Illinois (online):
  - \$1,636. Self-paced. 9 months to complete.