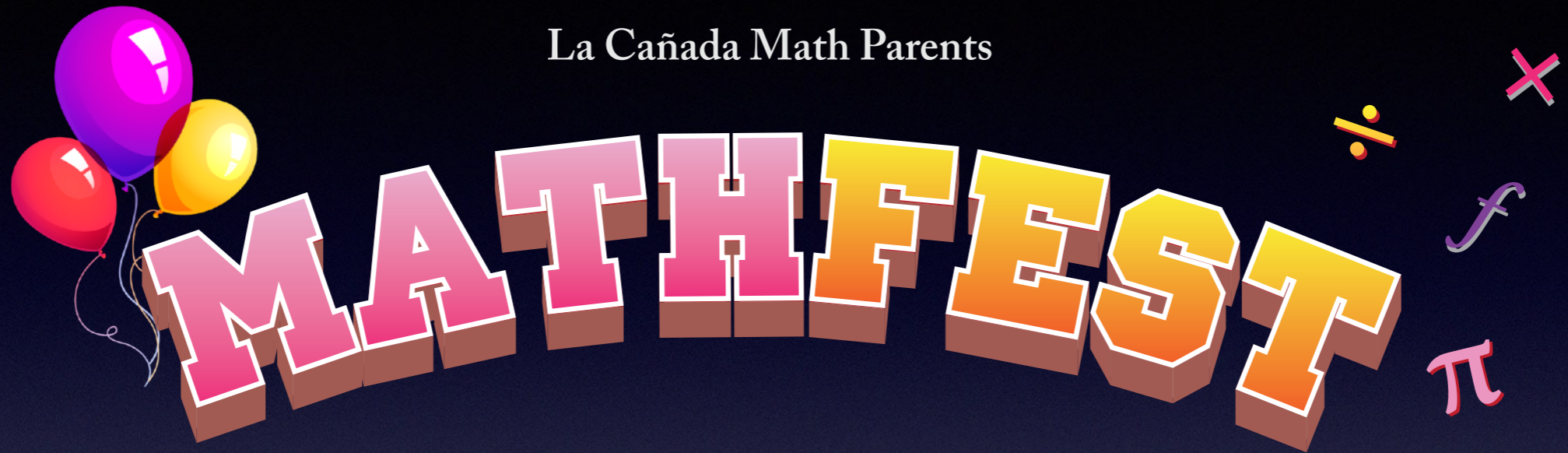


La Cañada Math Parents



Sep 26th, 2018

La Cañada Public Library

<http://www.lacanadamath.org/>

Overview

- **Policies & Definitions**
- **Math Curricula in use in K-5, 6-8, 7-12**
- **Math Pathways in 7-12**
- **Official Math Support**
- **Outside Math Support**



Policies & Definitions

- **LCUSD Mission Statement:**

“We are a learning community committed to personal growth and academic excellence.”

Source: https://www.lcusd.net/apps/pages/index.jsp?uREC_ID=376518&type=d&pREC_ID=850879



Policies & Definitions

- **Board Policy (BP) 6142.92: Mathematics Instruction**

“The Governing Board desires to offer a rigorous mathematics program that provides a strong foundation in basic mathematical skills and prepares students to apply mathematics in real life.”

Source: <http://www.gamutonline.net/district/lacanada/DisplayPolicy/375430/>



Policies & Definitions

- **cf. 6143: Courses of Study**

“Students at risk of failing to meet performance standards shall receive additional assistance and intervention.”

Source: <http://www.gamutonline.net/district/lacanada/DisplayPolicy/375430/>



Policies & Definitions

- **LCUSD Commitment to Differentiation:**

*“The district believes all students deserve an education that challenges them to meet their full potential. As such, the district is committed to **differentiating** the core curriculum for all students during the regular school day.”*

Source: LCUSD GATE Master Plan, June 2008:

<https://home.lcusd.net/District/pdfs/GATE%20Advisory%20Minutes/GATEMasterPlan200809.pdf>



Policies & Definitions

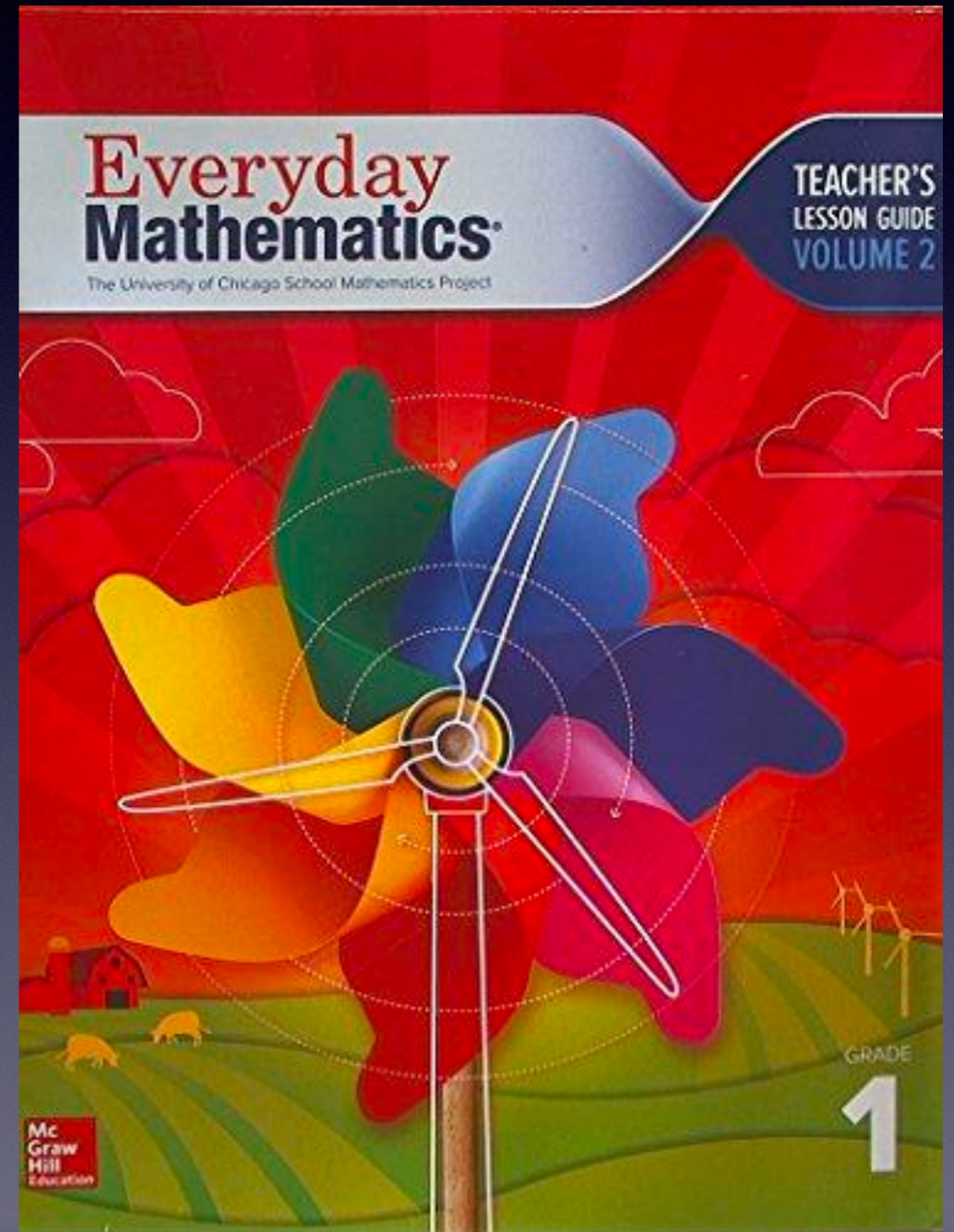
- **Definitions:**

- **Intervention:** *Help for struggling learners*
- **At Grade Level:** *Meets state standards for student's grade*
- **Enrichment:** *Extra challenge for advanced learners*
- **Differentiation:** *Tailoring instruction for each child*
- **Acceleration:** *Progress through curriculum at a rate faster than normal*

Curriculum: K-5

Everyday Mathematics (McGraw-Hill)

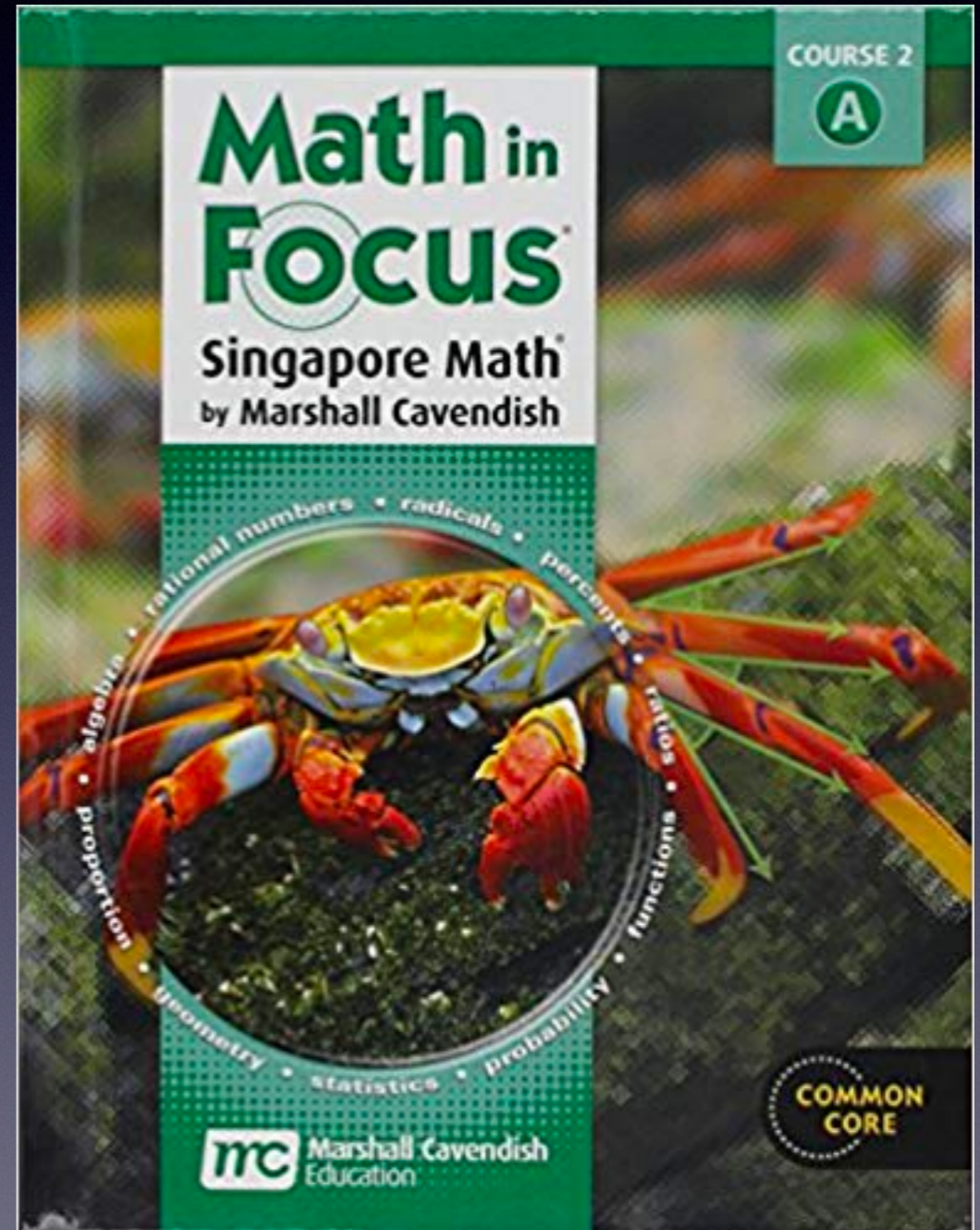
- Adopted May 2016
- Controversial adoption
- In 3rd year of use
- Constructivist spiral approach
- Non-standard algorithms
- No textbook
- Requires basic skills supplementation



Curriculum: 6-8

Math In Focus (Houghton-Mifflin)

- Adopted May 2016 (6th),
May 2017 (7th & 8th)
- Smooth adoption
- In 3rd year of use (6th), 2nd yr for 7/8
- Traditional approach
- Standard algorithms
- Rigorous & challenging
- No supplementation needed



Math Pathways: 7-12

7th Grade	8th Grade	9th Grade	10th Grade	11th Grade	12th Grade
Pre-Algebra	Algebra I	Geometry	Algebra II	Pre-Calc + Trig	Calculus
College Prep Track					
Algebra I	Geometry	Algebra II	Pre-Calc	Calculus	Higher Math: <ul style="list-style-type: none">• Statistics• Discrete Math• Multi-variable Calculus
Advanced College Prep Track					

The Old Way: Pre-Common Core (2011)

Math Pathways: 7-12

7th Grade	8th Grade	9th Grade	10th Grade	11th Grade	12th Grade
7th Grade Math	8th Grade Math	LC Math I	LC Math 2	LC Math 3	LC Math 4 or AP Calc AB
College Prep Track					
7th Grade Math Adv	8th Grade Math Adv	LC Math I Advanced	LC Math 2 Advanced	LC Math 3 Advanced	AP Calc BC or AP Stats
Advanced College Prep Track					

The New Way: Common Core (2013)

Math Pathways: 7-12

7th Grade	8th Grade	9th Grade	10th Grade	11th Grade	12th Grade
7th Grade Math	8th Grade Math	LC Math I Algebra I	LC Math 2 Geometry	LC Math 3 Algebra 2	LC Math 4 or AP Calc AB
College Prep Track					
7th Grade Math Adv	8th Grade Math Adv	LC Math I Advanced Algebra I	LC Math 2 Advanced Geometry	LC Math 3 Advanced Algebra 2	AP Calc BC or AP Stats
Advanced College Prep Track					

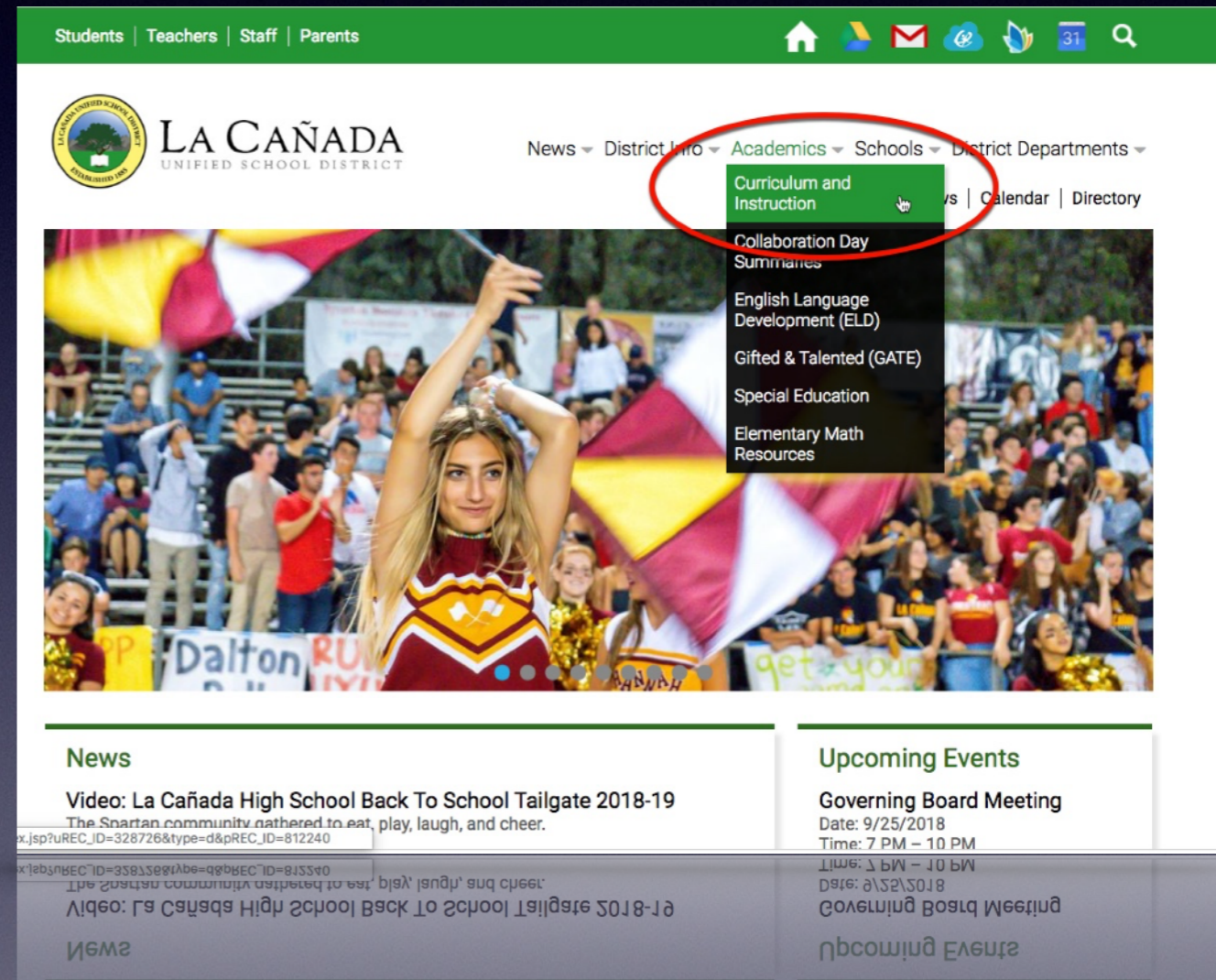
Where are Algebra & Geometry?

Curriculum: Textbooks

To find out what textbook is in use:

1. Go to LCUSD website.
2. Go to 'Academics'
3. Select 'Curriculum and Instruction'
4. Under heading 'LCUSD Textbooks TK-12' click on link 'Math and ELA Adoption List'.

NOTE: The list contains errors and is out of date.



The screenshot shows the website for La Cañada Unified School District. The navigation menu is open, and the 'Curriculum and Instruction' link is highlighted with a red circle. The menu items are: Curriculum and Instruction, Collaboration Day Summaries, English Language Development (ELD), Gifted & Talented (GATE), Special Education, and Elementary Math Resources. Below the menu, there is a banner image of a cheerleader and a crowd. The page also features sections for 'News' and 'Upcoming Events'.

Link: https://www.lcusd.net/apps/pages/index.jsp?uREC_ID=365398&type=d&pREC_ID=813952



Curriculum: LC Math 1 / Adv

Glencoe Algebra 1 (McGraw-Hill)

- Adopted May 2016
- Common Core aligned
- In 3rd year of use
- Traditional approach to Alg 1

NOTE: Textbook is not closely followed.

- Curriculum is primarily handouts designed by B. McDermott, et al in 2015.

For LC Math 1 Adv syllabus, see:

<http://mathmcdermott.weebly.com/lc-math-1-advanced.html>



Curriculum: LC Math 2 / Adv

Geometry (McDougal Littell, 2000)

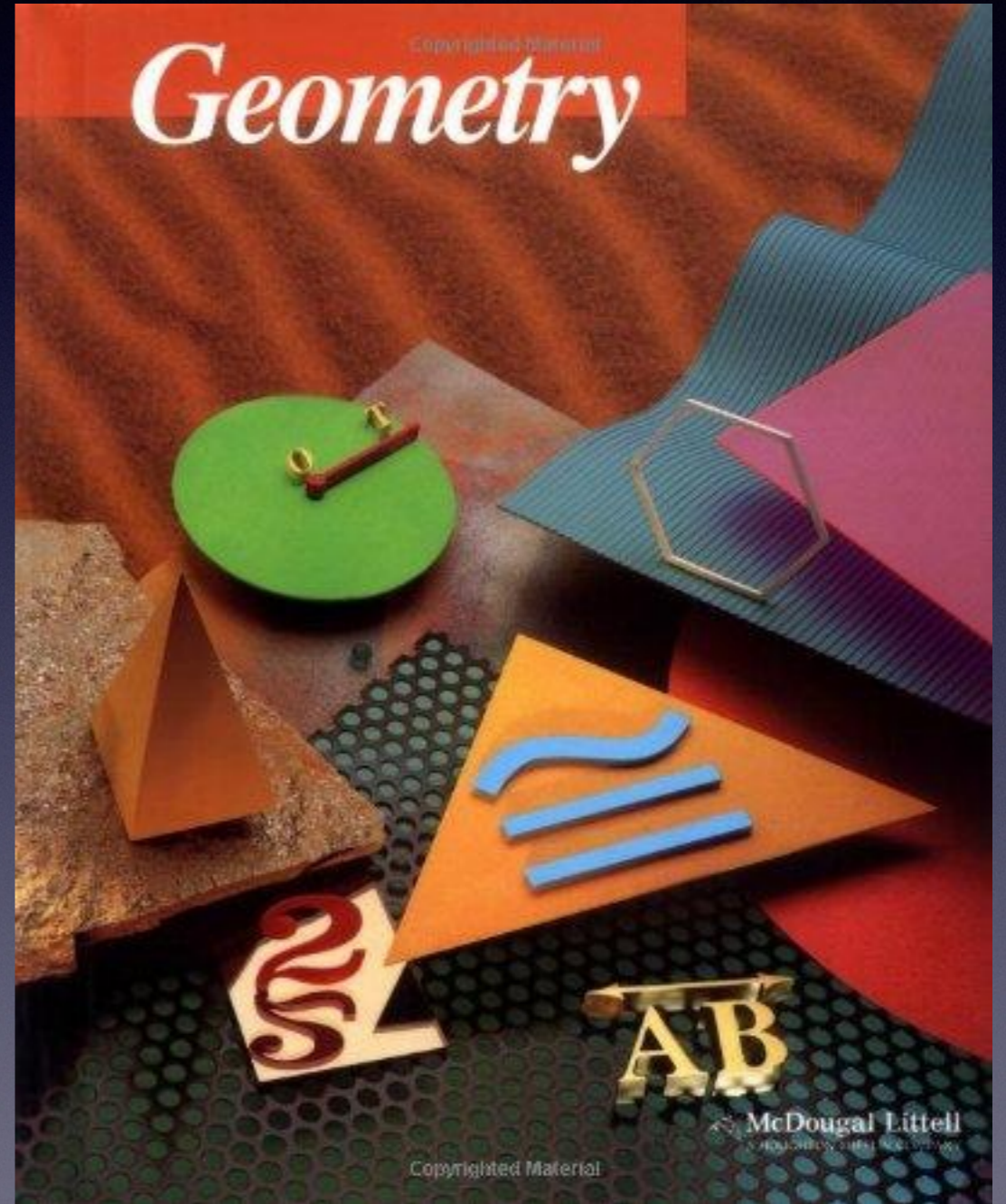
- Adopted May 2000
- Pre-dates Common Core
- In use > 15 years
- Traditional approach to Geometry

NOTE: Textbook is not closely followed.

- Curriculum is primarily handouts designed by B. McDermott, et al in 2015.

For LC Math 2 Adv syllabus, see:

<http://mathmcdermott.weebly.com/lc-math-2-advanced.html>



Curriculum: LC Math 3 / Adv

Glencoe Algebra 2 (McGraw-Hill)

- Adopted January 2017
- Common Core aligned
- In 2nd year of use
- Same series as LC Math 1 text

For LC Math 3 course outline see:

<https://www.facebook.com/download/preview/375573902982019>

For LC Math 3 Advanced see:

<https://www.facebook.com/download/preview/537247553364129>



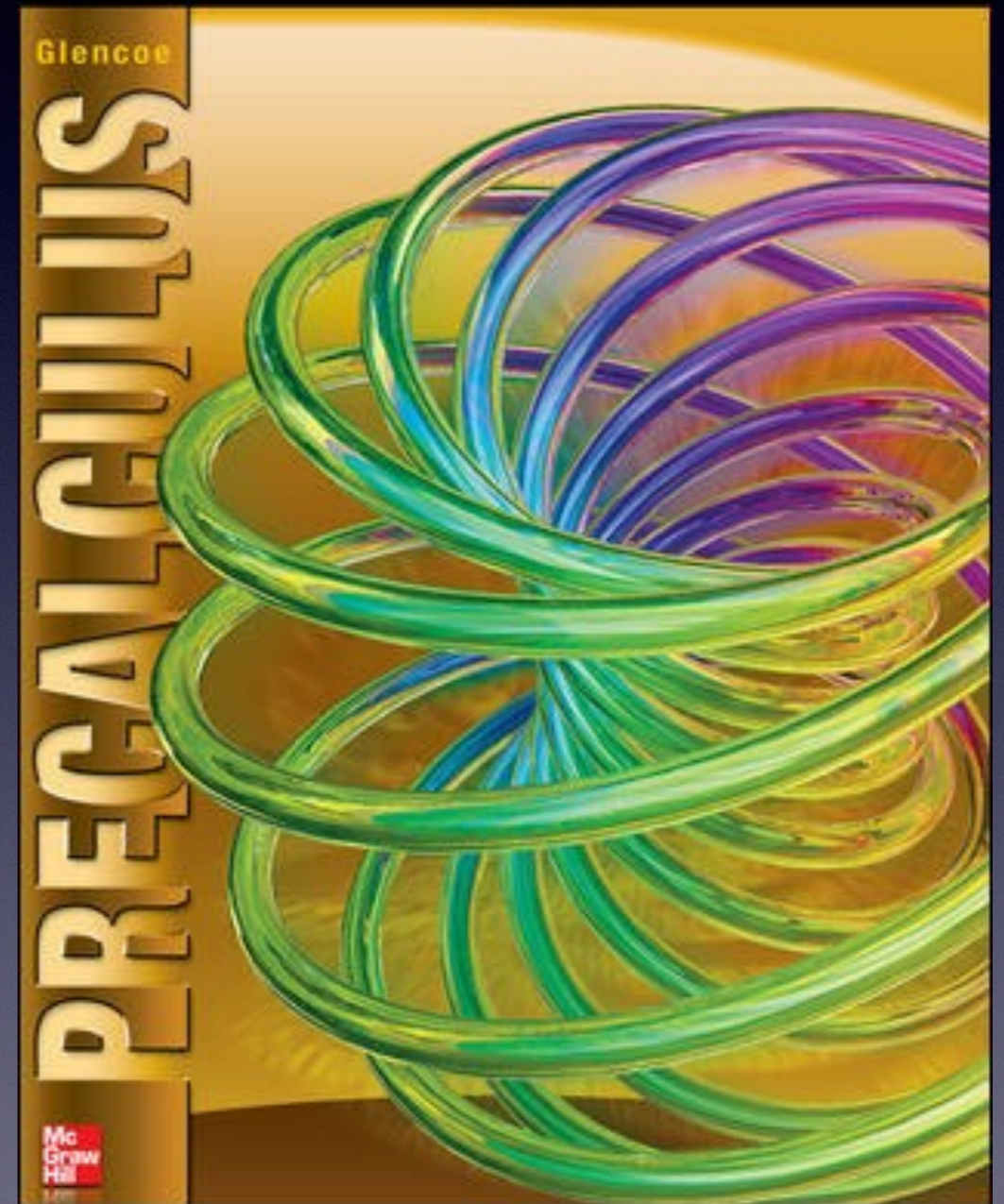
Curriculum: LC Math 4

Glencoe PreCalculus (McGraw-Hill, 2014)

- Adopted May 2018
- Common Core aligned
- In 1st year of use
- Same series as LC Math 1 & 3 textbooks
- Two sections offered in 2018-19

For LC Math 4 course outline see:

<https://www.facebook.com/download/preview/337381580157364>



Curriculum: AP Calc AB / BC

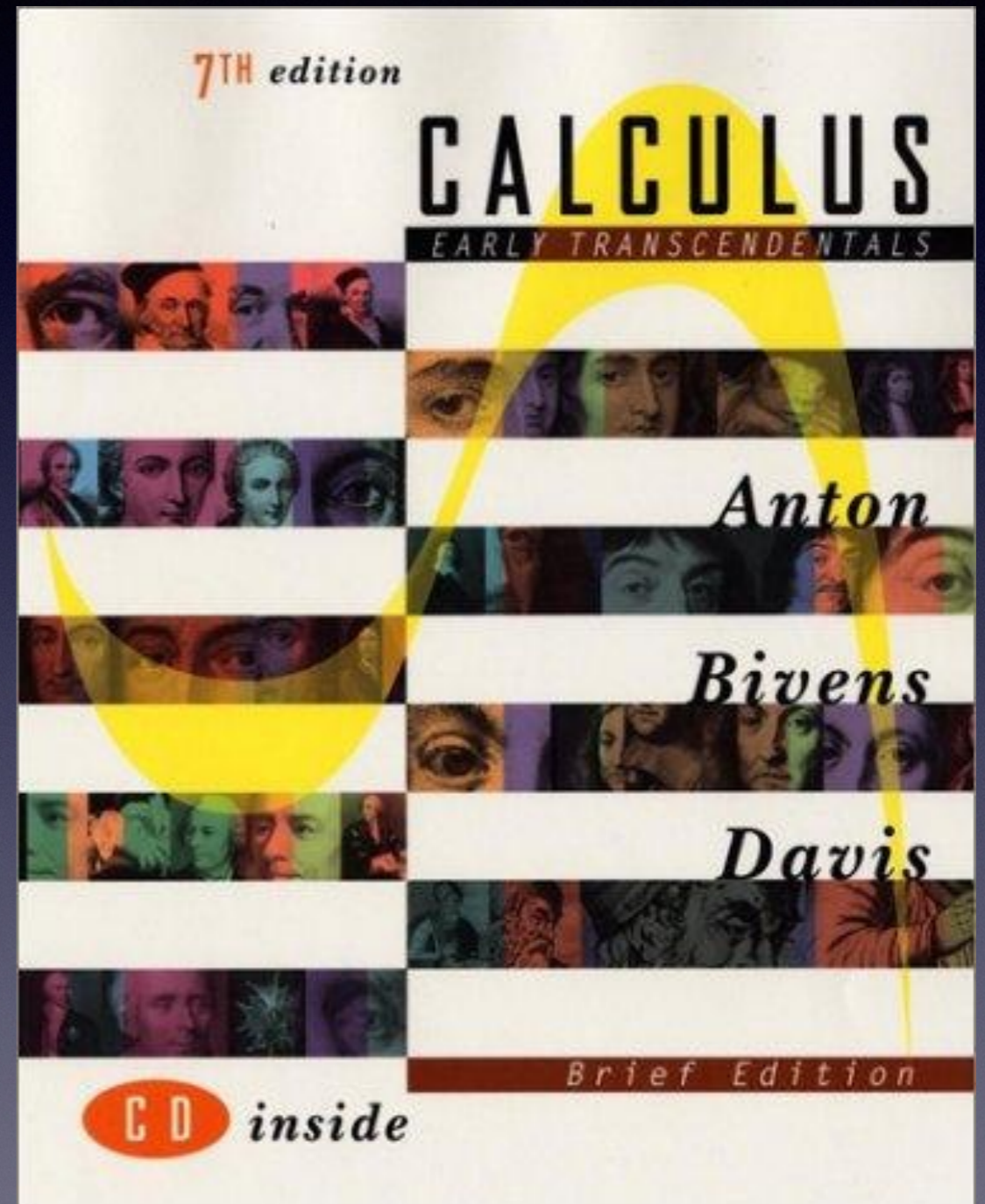
Calculus, Anton & Bivens (Wiley, 2002)

- Adopted - ?
- Not Common Core aligned
- In use > 15 years
- Current version is 11th edition (2016)

For Mrs. Calms website: <https://ccalm.weebly.com/>

For AP Calc AB course:

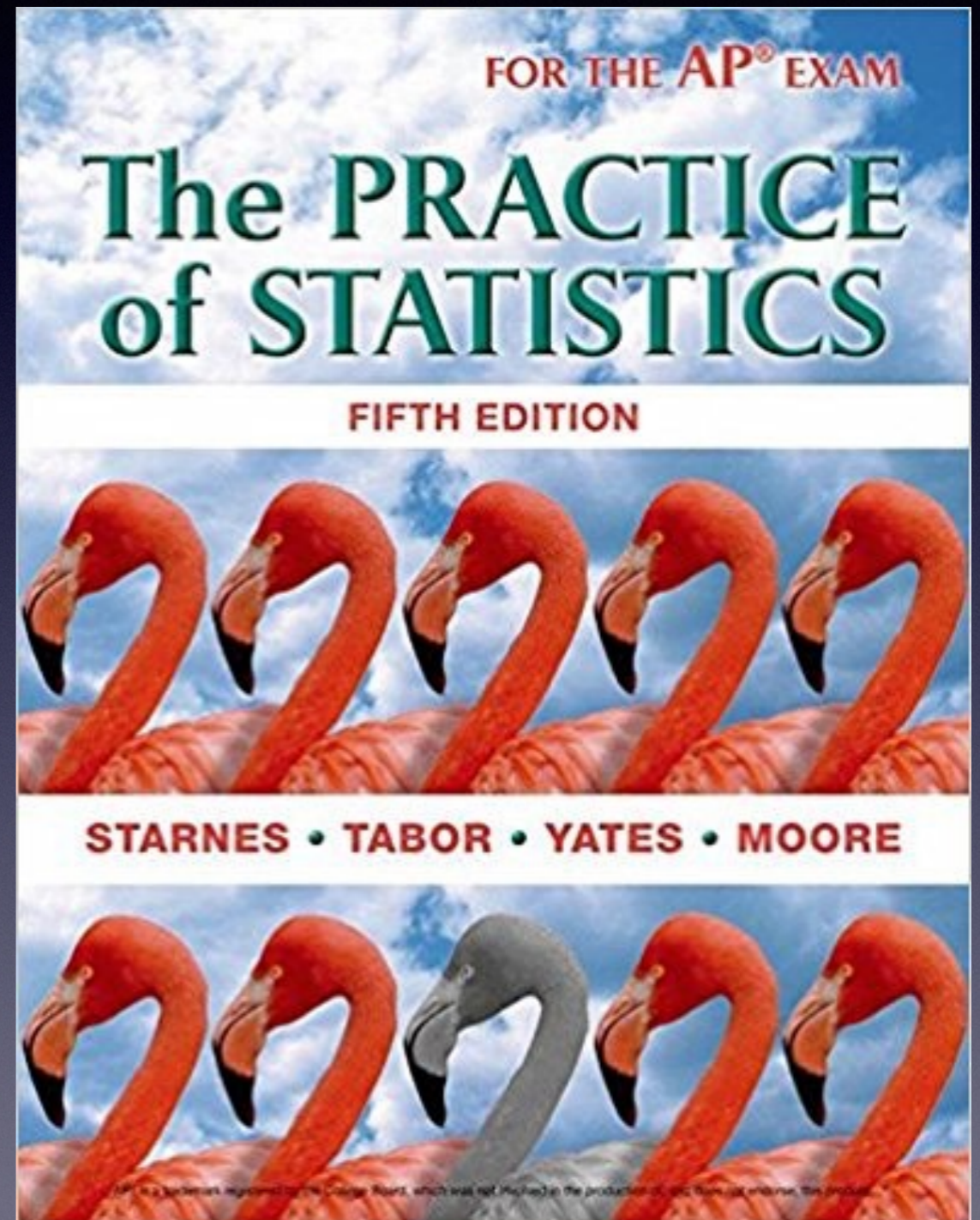
<https://ccalm.weebly.com/ap-calculus-ab.html>



Curriculum: AP Statistics

The Practice of Statistics – 5th edition
(W.H. Freeman)

- Adopted 2015
- Not Common Core aligned
- Last textbook used was 3rd edition of the same book (2006)



Official Math Support (K-6)

- “If your child is struggling, parents should address concerns with the teacher to come up with a plan for assistance or intervention.”
- “All students have access to **IXL Math**, that provides students with standards-based practice and review ... (IXL) focuses on procedural fluency, but does not necessarily address conceptual understanding, adaptive reasoning, or real life applications that teachers use in the classroom to develop strong mathematicians.”



Official Math Support (K-6)

New Resources Being Tried This Year:



<https://www.youcubed.org/>

Developed by Jo Boaler of Stanford University, **youcubed** is an online resource whose goal is to inspire, educate and empower teachers of mathematics, transforming the latest research on math learning into accessible and practical forms.



<http://www.dreambox.com/>

This year, teachers at each grade level will be piloting **DreamBox**, an online math intervention program that can be used in and out of the classroom. This program is an excellent resource to support struggling students with mastering grade-level math concepts.

Official Math Support (K-6)

- “If students continue to struggle in any academic area after interventions have been put in place, teachers/parents may request a **Student Study Team (SST)** to discuss further strategies for assisting students.”
- “All teachers have been trained in **Cognitively Guided Instruction (CGI)** strategies and have been implementing them for the past 5 years.”
- No math intervention specialists as there is for reading.



Official Math Support (7-8)

- **Math Support:** Every Tuesday after school from 3:15-4:15PM w/ Ms. Dever (room 724) and Ms. Wright (room 725). Drop-in format: come as needed.
- Accelerated students taking LCHS math courses may seek help from their math teacher during homeroom period.



Official Math Support (7–8)

- If your child needs math support, talk to the teacher first.
- If additional support or resources needed, talk to the counsellor assigned to your child — Allison Dalbeck or Shannon Brascia.
- Math intervention classes no longer offered. Last offered in 2016-17.



Official Math Support (9–12)

- As in 7/8, if your child needs math support, talk to your assigned math teacher first.
- If additional support or resources are necessary, talk to the counsellor assigned to your child next.
- Numerous Special Education (SPED) services offered.
- Four forms of math support resources for regular students available...



Official Math Support (9-12)

LCHS Math Support Resources:

1. **IRC Math Support** – Tuesdays from 3:30 to 4:30 in the IRC. Drop-in format: come as needed.

2. **Math Intervention STEP Classes:**
 - a. ST1408: Saavedra (rm 219) – LC Math 1 Adv, LC Math 2, AP Stats.
 - b. ST1409: Gruss (rm 224) – LC Math 1 Adv, LC Math 2 Adv, AP Stats.
 - c. ST1410: Quinn (rm 225) – LC Math 3, Adv. Math Topics, AP Stats.



Official Math Support (9-12)

LCHS Math Support Resources:

3. Home Room STEP Classes:

1. ST1301: Calm (rm 221) – Teaches AP Calc AB (3) + AP Calc BC (2).
2. ST1301: Leu (rm 218) – Teaches LC Math 3 (3) + LC Math 4 (2).
3. ST1601: Cyhaniuk (rm 214) – Study Hall. Freshmen only.

4. **Peer Tutoring STEP Class** – Matches upper class students who are strong in math with lower class students needing support. 1-on-1 tutoring support is provided during STEP class.



Official Math Enrichment (K-6)

- “All teachers are trained in providing differentiated instruction in the classroom. Teachers provide enrichment through the adopted curriculum and other supplemental resources, including…”



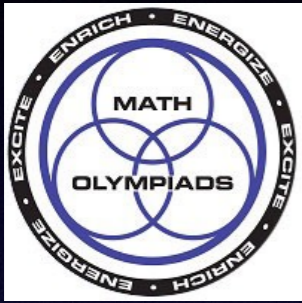
Redbird Mathematics – Online resource developed by Stanford University and sold to McGraw-Hill Education.



Students who qualify for the GATE program receive differentiated instruction in the classroom and additional enrichment through the GATE program led by Hilary Gregg.



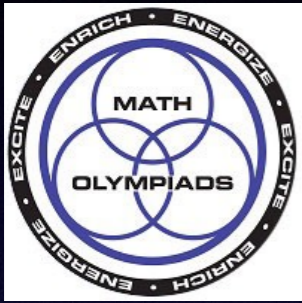
Official Math Enrichment (K-6)



Math Olympiad is offered at all three elementary sites for students in grade 4-6:

- **Palm Crest Elementary (PCR)** - 4-6 grade GATE students are given priority enrollment. Students who have not qualified for the GATE program are also invited to participate based on CAASPP scores and space availability.

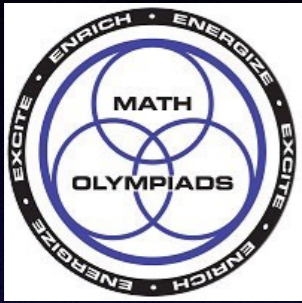
Official Math Enrichment (K-6)



Math Olympiad is offered at all three elementary sites for students in grade 4-6:

- **La Canada Elementary (LCE)** - 5th and 6th grade GATE students and students who scored a 98% proficiency on the Math CAASPP receive invitations to join the class. In 4th grade, the Math Olympiad class is offered to everyone, and a lottery is held if more than 25 students sign up.

Official Math Enrichment (K-6)



Math Olympiad is offered at all three elementary sites for students in grade 4-6:

- **Paradise Canyon Elementary (PCY)** - GATE students are given priority for grades 4 -6. Students who have not qualified for the GATE program are also invited to participate based on CAASPP scores and space availability.

Official Math Enrichment (7-8)

- BP & AR 6152.1: Placement in Mathematics Courses

“Beginning of the 2016-17 school year, the district will implement the requirements of the California Mathematics Placement Act of 2015 to accurately evaluate and place students in appropriate mathematics courses.”

Source: <http://www.gamutonline.net/district/lacanada/DisplayPolicy/1029168/>



Official Math Enrichment (7-8)

- BP & AR 6152.1: Placement in Mathematics Courses

Translation:

Students may place into whatever math course they are capable to taking, regardless of age or grade.

Source: <http://www.gamutonline.net/district/lacanada/DisplayPolicy/1029168/>



Official Math Enrichment (7-8)

- BP & AR 6152.1: Placement in Mathematics Courses

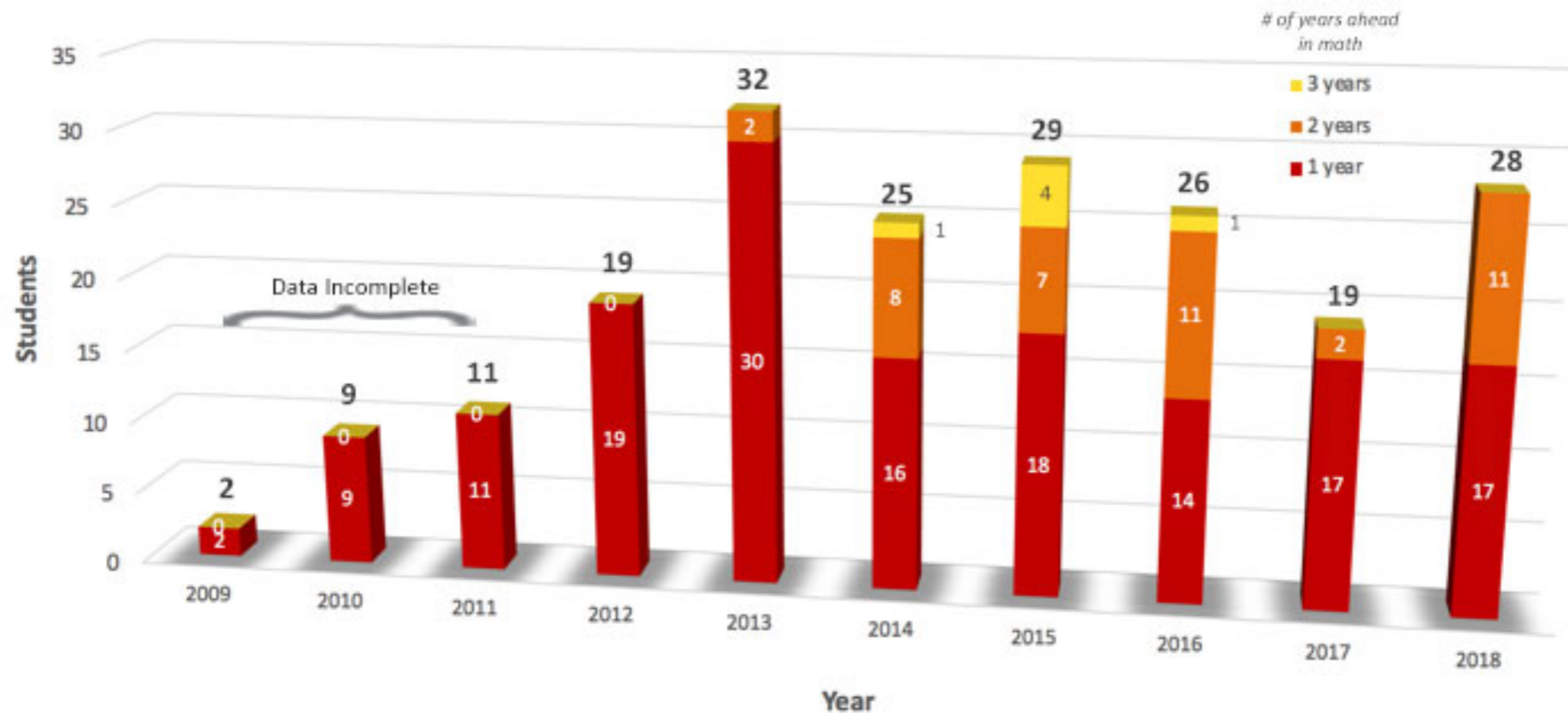
Q: How is it Implemented?

A: Middle school mathematics placement test is offered at the end of 6th grade (and again in August), for placement into appropriate math course upon arrival at LCHS 7/8 in 7th grade.



Official Math Enrichment (7-8)

LCUSD Students in Above-Grade Level Math at 7th Grade



Official Math Enrichment (7-8)

Math Competitions:

- AMC 8 – Nov. 13, 2018
- MathCounts – Nov.-Jan. 2019
- MOEMS-M - 5 monthly contests Nov.-Mar. 2019
- LA County Math Field Day – Apr. 27, 2019

If interested, contact Megan Dever (rm 724) or join Spartan Vanguard.



Official Math Enrichment (9-12)

Math Competitions:

- AMC 10/12 – Feb. 7 or 13, 2019
- Westmont College Competition – Feb. 09, 2019
- Math Day at the Beach - Late Feb. 2019
- AIME - Mar. 13 or 21, 2019
- LACC Math Contest – Late Mar. 2019

If interested, join Spartan Vanguard...



Official Math Enrichment (9-12)



- New LCHS club/team this school year.
- Focus on math problem solving and competitions.
- Meets Thursdays from 3:30-5:30 in Mr. Nuñez room.
- Also offers STEP class with Mr. Nuñez (217.)

Outside Math Resources

Free Web Resources:

- **IXL** (K-6) - Contact math teacher for login info.
- **Khan Academy** (K-12) - <http://www.khanacademy.org>
- **Math is Fun** (K-12) - <https://www.mathsisfun.com/>
- **Purple Math** (K-UG) - <https://www.purplemath.com/>

Outside Math Enrichment

Paid Web Resources:

- *Beast Academy* (2-5) - <https://beastacademy.com/>
- *AoPS* (6-12) - <http://www.artofproblemsolving.com>
- *Math Academy* (6-12) - <http://mathacademy.us/>
- *Russian School of Math* (K-12) -
<http://www.russianschool.com/>

Outside Math Intervention

On Tutors:

“We understand there are many outside agencies to provide math ‘tutoring’ however, we caution parents that unless these tutors are trained in CGI, their support may create some confusion for students. Remember, math instruction looks different today than it did when we were in school. We love the changes, though!”

– Karen Hurley,
Principal of PCR



Outside Math Intervention

Local Private Tutors:

- Youth Employment Services (YES) listing (K-12):
 - See La Canada Flintridge Parents Facebook group in files section. ([link](#))
- [Yelp.com](#) - [Yelp Math Tutors in 91011](#)
- [LCMP Facebook Group](#) -
<https://www.facebook.com/groups/lacanadamath/>



Outside Math Intervention

Local Tutoring Centers:

- Mathnasium of La Crescenta / La Canada
- JEl Learning Center - La Canada / La Crescenta
- Learning Ladder
- Stepping Stones
- Revolution Prep
- Young Scholar Institute (YSI)
- C2 Education of La Crescenta



Local Tutoring Centers

JEI Learning:

JEI Learning Center

La Canada/La Crescenta

Local Tutoring Centers

Revolution Prep:

**HOMWORK HELP:
HOW IT WORKS**



REVOLUTION PREP

Local Tutoring Centers

C2 Education:

C2 Education La Crescenta



3063 Foothill Blvd (b/w Ramsdell & Pennsylvania)

la.crescenta@c2educate.com

(818) 249-8030



(818) 249-8030

la.crescenta@c2educate.com

Local Tutoring Centers

C2 Education:

Programs Offered at C2 Education

- Test prep
- Tutoring
- College admissions
- 3:1 individualized instruction
- Flexible scheduling
- Open 7 days a week

Math Programs

- ISEE/SSAT/HSPT
- SAT & ACT
- Math enrichment/core skills
- School tutoring (up to AP Calc & AP Stats)