

# CACC Chinese School Math Program for 2018-2019

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# Math Classes for 2018-2019

- Math Olympiad (MO)  
Level I, II, III, IV (no new student to MO-IV)
- Competitive Math (CM)  
Level I, II, III, IV (?)
- Mathcounts & AMC 8
- American Math Competition 10 (AMC 10)  
AMC-10 and PAIME

# Math Olympiad (MO)

- Current class to grade level in general:
  - MO-101, MO-102 – Grade 4-5
  - MO-201, MO-202 – Grade 5-6
  - MO-301, MO-302 – Grade 6, 7, 8
  - MO-401 – Advanced Grade 6, 7, 8 who have completed MO level III,
- in class MO Test, once a month, 5 questions in one contest, 5 contests a school year
- Permit Required for class registration

# Competitive Math (CM)

- Current class to grade level in general:
  - CM-101 – Grade 1-3  
knowledge on addition/subtraction and good reading skill
  - CM-201 – Grade 3-5  
knowledge on multiplication and division with remainders
  - CM-301 – Grade 5-6  
knowledge on fractions, some percent and rates
  - CM-401 – Grade 6-8 (not enough for the Mathcounts/AMC 8 class) ???
- Permission Required for class registration

# MO & CM (Differences)

| Math Olympiad  | Competitive Math  |
|--|---|
| Target on 4 <sup>th</sup> – 8 <sup>th</sup> grade level  | Target on 1 <sup>st</sup> – 8 <sup>th</sup> grade level   |
| Focus on MOEMS Contest and related curriculum  | Focus on all competition related concepts, step by step approach  |
| Specific concepts focused in contest → direct class teaching in concepts   | Covers all concepts. It might make some students feel hard to follow.   |
| <ul style="list-style-type: none"> <li>•MO I – covers basic problem solving strategies and contest taking skills, like pattern, sum, guess &amp; check ...</li> <li>•MO II – covers Pattern and Sum, Factor and Prime, Divisibility Theorems, Writing an Equation, Basic Geometry and Measurement...</li> <li>•MO III – covers number sense &amp; number theory, sequences &amp; series, counting &amp; probability, algebra, and geometry.</li> <li>•MO IV – advanced, focuses on MATHCOUNTS competition</li> </ul> | <ul style="list-style-type: none"> <li>•CM I – focuses on comprehension of statements and logic, requires students to know addition /subtraction and have good reading skills.</li> <li>•CM II – requires students to be able to multiply and divide with remainder</li> <li>•CM III – requires students can work with fractions, some percents, rates, and are generally ready to set up simple equations</li> <li>•CM IV -- some basics of number theory, advanced counting, geometry, etc.,</li> </ul> |

# Mathcounts & AMC 8

- Focuses on Mathcounts competition & American Math Competition (AMC) 8.
  - Aug – Nov: AMC 8 mainly
  - After Nov, focuses on Mathcounts (chapter is in Feb each year)
  - May include Mathcounts countdown problems
  - May include Bay Area Math Olympiad (BAMO) -- step by step prove problems
- Student requirement:
  - Mainly for middle school students who wish to improve skills in mathcounts and AMC 8 competition.
  - Students who has completed MO level 3 or CM level 3.
  - Students who are placed in MO level 4 or CM level through placement test
- Permission Required for class registration

# Differences

## MO level 4 vs Mathcounts/AMC 8

- MO level 4 class ---
  - Use MO teaching method
  - In class MO test
  - Mathcounts
  - No AMC 8 teaching
  
- Mathcounts/AMC 8 class ---
  - Mathcounts
  - AMC 8

# AMC 10

- Focus on AMC 10 contest
- Level I (two classes) – focus on Q1-15
- Level II (PAIME) (one class) – focus on Q10-25
- There will be placement test on this class
- Permission required for class registration



# Learning in Class

- Attend each class and participate in class
- Bring books, pencil, paper at each class ...
- Print out class material when needed
- Pay attention to teacher email for class teaching information and homework
- Do homework (try not to cramp on Saturday)
- Communicate with teachers for problems/concepts not understand

# Placement Test

- Placement Test

4/15/18 – Sign ups see school information

Where to find the links? –pay attention to school email, Newsletter

No placement test after next school year starts. All per teacher recommendation

- Class Registration

Start in May – Watch Out CACC Chinese School Registration Email, Newsletter

# Class Registration Sequence

--- very important to register ASAP  
when receiving email to register

| In General   | Math Program  |
|--|---|
| ➤ 1 <sup>st</sup> group – Room Parents, Current Teachers | ➤ 1 <sup>st</sup> group – teacher recommendation to move up in same program (especially MO-IV, no placement test) |
| ➤ 2 <sup>nd</sup> group – Current Students               | ➤ 2 <sup>nd</sup> group – qualified current CACC students from placement test                                     |
| ➤ 3 <sup>rd</sup> group – Open to Public                 | ➤ 3 <sup>rd</sup> group – qualified students new to CACC when space available                                     |
|  | ➤ 4 <sup>th</sup> group – all qualified students when space available   |

# AMC 10 placement

- Teacher recommendation to move up or stay in same class
- The importance to go through AMC 10 basic level class to learn concepts

# CACC Organized Math Competition

Take name list online at CACC website

- AMC 8 – mid Nov each year
- AMC 10/12 – Feb each year (2 tests)
- Berkeley Mini Math Tournament
- Mathkangaroo – CACC host a testing site, but registration has to go through Mathkangaroo website, NOT CACC website
- BAMO (end of Feb, each year)

# Other Math Competitions

- CACC School will only announce these competitions but not organize them – watch out CACC CS emails (individual & newsletters) and announcement on CACC website
- [Mathleague.org](http://Mathleague.org) contests

# Additional Math Competitions (Middle School) ?

- Mission Math Regional (MagMaR) – hosted by Mission San Jose High School Math Club
  - Team of 4 students
  - CACC can form teams

<http://www.msjmath.com/magmar.html>

- Purple Comet – online competition (volunteer?)

<http://purplecomet.org/>