

## Sierra Chinese School 2017-2018 **MO Basics** Class Teaching Plan

**Fall Semester** (topics are tentative, subject to change without notice)

2017-08-20	First day of Chinese school. First MO class, evaluation exam.	Week 01
2017-08-27	Basic Strategy #1: drawing a picture or diagram Basic Strategy#2: making an organized list	Week 02
2017-09-03	<b>No school, Labor Day</b>	
2017-09-10	Basic Strategy#3: making a table	Week 03
2017-09-17	Basic Strategy#4: solving a simpler related problem	Week 04
2017-09-24	Basic Strategy#5: finding a pattern	Week 05
2017-10-01	Strategy#9 working backwards	Week 06
2017-10-08	Basic Strategy#6: guessing and checking	Week 07
2017-10-15	Review Test: strategy #1 - #6	Week 08
2017-10-22	Strategy #7: Experimenting Strategy #8: Acting Out the Problem	Week 09
2017-10-29	Strategy #10 writing an equation	Week 10
2017-11-05	Basic Strategy #11: changing your point of view Basic Strategy #12: miscellanea strategies	Week 11
2017-11-12	Number Patterns: addition patterns	Week 12
2017-11-19	Number Patterns: multiplication patterns	Week 13
2017-11-26	<b>No school, Thanksgiving break</b>	
2017-12-03	Review Test	Week 14
2017-12-10	MatLeague.org preparation: sprint test	Week 15
2017-12-17	MathLeague.org preparation: number sense & target test	Week 16
2017-12-24	<b>No school, winter break</b>	

## Spring Semester (topics are tentative, subject to change without notice)

2018-01-14	MathLeague.org preparation: team test	Week 17
2018-01-21	Number Patterns: more addition patterns	Week 18
2018-01-28	Number Patterns: unusual patterns, patterns and sums	Week 19
2018-02-04	Factors	Week 20
2018-02-11	Factors and Primes	Week 21
2018-02-18	No school, President Day	
2018-02-25	Greatest Common Factors	Week 22
2018-03-04	Least Common Multiples	Week 23
2018-03-11	Review Test	Week 24
2018-03-18	Divisibility: by 2, 5, 10, and 100 Divisibility: principle for sums and differences	Week 25
2018-03-25	Divisibility: by power of 2, by 3 and 9	Week 26
2018-04-01	No school, spring break	
2018-04-08	Combined Divisibility	Week 27
2018-04-15	Divisibility: by 11, by (7,11,13)	Week 28
2018-04-22	Fractions: unit fractions, complex fractions	Week 29
2018-04-29	State Championship preparation / TBD	Week 30
2018-05-06	Fractions: extended finite fractions, fraction parts	Week 31
2018-05-13	Review Test	Week 32
2018-05-20	Last day of Chinese school, no MO class.	Week 33

## Sierra Chinese School 2017-2018 **MO Advanced** Class Teaching Plan

**Fall Semester** (topics are tentative, subject to change without notice)

2017-08-20	First day of Chinese school. first MO class, evaluation exam.	Week 01
2017-08-27	Fraction topics	Week 02
2017-09-03	<b>No school Labor Day</b>	
2017-09-10	Motion problems and book problems	Week 03
2017-09-17	Work problems and clock problems	Week 04
2017-09-24	Handshake problems, cryptarithms	Week 05
2017-10-01	Certainty problems, sets and Venn diagrams	Week 06
2017-10-08	Review test	Week 07
2017-10-15	Geometry: angles and triangles	Week 08
2017-10-22	Geometry: rectangles and squares	Week 09
2017-10-29	Similar triangles	Week 10
2017-11-05	AMC-8 preparation	Week 11
2017-11-12	Geometry: circles, circumference, area of circles	Week 12
2017-11-19	Trapezoids	Week 13
2017-11-26	<b>No school, Thanksgiving break</b>	
2017-12-03	Review Test	Week 14
2017-12-10	MathLeague.org preparation: sprint test	Week 15
2017-12-17	MathLeague.org preparation: number sense & target test	Week 16
2017-12-24	<b>No school, winter break</b>	

## Spring Semester (topics are tentative, subject to change without notice)

2018-01-14	MathLeague.org preparation: team test	Week 17
2018-01-21	Number theory: divisibility revisit	Week 18
2018-01-28	Number theory: number bases, modular arithmetic	Week 19
2018-02-04	Number theory: primes and factors revisit, special factorizations	Week 20
2018-02-11	Number theory: sequences and series	Week 21
2018-02-18	No school, President Day	
2018-02-25	State Championship or MathCounts preparation	Week 22
2018-03-04	State Championship or MathCounts preparation	Week 23
2018-03-11	The power of coordinates	Week 24
2018-03-18	The power of coordinates (cont.)	Week 25
2018-03-25	Functions	Week 26
2018-04-01	No school, spring break	
2018-04-08	Linear equations	Week 27
2018-04-15	Linear equations (cont.)	Week 28
2018-04-22	Inequalities	Week 29
2018-04-29	Operations and relations	Week 30
2018-05-06	Buffer session / TBD	Week 31
2018-05-13	Review Test	Week 32
2018-05-20	Last day of Chinese school, no MO class.	Week 33