

Math Enrichment & Competitive Math Courses(Ages 6-15)

Singapore Math (Ages 6-11)

Did you know that Singapore students ranked first in the world in math and U.S. students ranked last amongst industrialized countries? Singapore Math features a proven process of problem solving by following a concrete to pictorial to abstract approach. It utilizes extensive pictures to graphically decompose, represent and solve complicated multi-step math problems which U.S. students don't learn how to solve until two or more grades later. Singapore Math is so successful and compelling that California adopted it as a standard math curriculum in 2007. This course covers topics in:

- whole numbers
- fractions
- decimals
- percentage
- ratio
- measurement
- geometry
- data analysis

*Many hands-on activities will demonstrate and present deeper understanding of math abstracts. Join us to discover a more effective and FUN approach to learn math and dramatically improve your child's math proficiency. **Different topics are covered each quarter and courses can be taken in any order.***

Pre-Algebra A (Ages 11-13)

Advance your student's math level with **Pre-Algebra A!** Our ongoing Pre-Algebra Series offers challenging enrichment for students looking to get ahead in school, preview pre-algebra, or improve grades in math. Students get intensive practice with the fundamentals of pre-algebra and develop a solid foundation for future math success. Topics covered may include:

- variables
- integers/expressions
- order of operations
- exponents
- factorization
- ratios

*Throughout the course, students exercise critical thinking skills by analyzing word problems. **Different topics are covered each quarter and courses can be taken in any order.** Keep your student ahead of the game!*

Algebra 1 (Ages 12-14)

Advance your student's math level with **Algebra 1!** Our ongoing Algebra 1 Series offers challenging enrichment for students looking to get ahead in school, preview algebra, or improve grades in math. Students get intensive practice with the fundamentals of algebra and strengthen skills for future math success. Topics covered may include:

- algebraic expressions
- linear inequalities
- quadratic equations
- graphing
- polynomials
- rational and radical expressions

*Throughout the course, students exercise critical thinking skills by analyzing word problems. **Different topics are covered each quarter and courses can be taken in any order.** Keep your student ahead of the game!*

Geometry (Ages 13-15)

Advance your student's math level with **Geometry!** Our ongoing Geometry Series offers challenging enrichment for students looking to get ahead in school, preview geometry, or improve grades in math. Students get intensive practice with the fundamentals of geometry and strengthen skills for future math success. Topics covered may include:

- the properties of points
- lines and planes
- two and three dimensional figures
- area
- volume
- proportions

*Students learn to make logical conclusions in geometrical settings and develop visual-spatial skills. **Different topics are covered each quarter and courses can be taken in any order.** Keep your student ahead of the game!*

Course Descriptions

Math Olympiad (Ages 9-13)

Succeed in Math Olympiads and boost math grades with **Math Olympiads!** Math Olympiads offers students the chance to shine in challenging competitions that demand excellent reasoning and creativity. Featuring problems from previous competitions, our ongoing Math Olympiads Series is designed to help students strengthen math intuition and master major strategies in creative problem solving. Topics covered may include:

- sequences
- series
- principles of divisibility
- geometric configurations
- logic

*Students become proficient in problem solving techniques, discover the fun of math, and increase Olympiads scores. **Different topics are covered each quarter and courses can be taken in any order.***

AMC 8 (Ages 11-14)

Succeed in AMC 8 and boost math grades with **AMC 8 A!** The AMC 8 contest presents middle school students with a challenging array of math problems. In our ongoing AMC 8 Series, your child will prepare for the contest by exploring a different math topic and/or problem solving strategy each week. Topics covered may include:

- logic and set theory
- algebra
- geometry
- number theory
- probability and statistics
- recreational mathematics

*In-depth instruction and detailed feedback allow students to improve their math skills significantly. Weekly homework features former contest problems and is designed to broaden students' exposure to multiple methods of problem solving. **Different topics are covered each quarter and courses can be taken in any order.***