

Math 8th Grade Syllabus

TextBook 教材 :

New PSAT information, College Board; PSAT study guides; Official PSAT tests; Texas Instrument calculator user guide. Math Olympiad tests

Objectives:

- To encourage students to read real life problems and translate to words to numbers and equations
- To increase problem-solving ability by analyzing problem and introducing different methods of solutions
- To understand the importance of math definitions and their appropriate use
- To encourage students to make connections between math theory and real world application
- To foster a rudimentary interest in mathematics and to apply mathematics in real world situations using technology such as graphing calculators
- To introduce students to above-grade topics so as to prepare students for math competitions

FallSemester 第一学期 (秋季) 课程安排

Prerequisites: Students are expected to be in algebra 1, geometry or algebra 2 and have basic algebraic and statistics skills.

Teaching Week 课次

Content 教学内容

Week 1 第一周

Linear equations

Week 2 第二周

Systems of linear equations

Week 3 第三周

Inequalities

Week 4 第四周

Problem solving

Week 5 第五周

Scatterplot

Week 6 第六周

Tables, statistics, and probability

Week 7 第七周

Exponents, radicals, polynomials and rational expressions

Week 8 第八周

Functions and function notations

Week 9 第九周

Quadratic equations

Week 10 第十周

Lines, angles, and triangles

Week 11 第十一周

Similarity, congruence & proofs

Week 12 第十二周

PSAT exam math section