

High School Math Express

Syllabus

Nov 1, 2023 Version

PacFordia Education

Note: the syllabus may be subject to change depending on the background and the needs of the students.

1 Weekly Schedules

Week 0 - Week 3 (Algebra I)

Week 0: Pre-Class Survey + High School Math Overview + Pre-High School Math Review

Week 1: Linear Equations, Inequalities, Graphs, Representations and Solutions of System of Equations

Week 2: Exponential Functions, Polynomials, Factorization, and Sequences

Week 3: Quadratic Functions: Graphs and Solutions

Week 4: Homework Solutions (for Week 1, Week 2, Week 3)

Week 5 - Week 11 (Algebra I + Geometry)

Week 5: Quiz 1 + Radical Functions

Week 6: Radical Functions + Fundamental Statistics + Geometry Basics

Week 7: Introduction to Proofs + Lines Relations

Week 8: Geometric Transformation + Congruent Triangles

Week 9: Triangle Properties + Proofs

Week 10: Quadrilaterals and Similar Triangles

Week 11: Homework Solutions (for Week 6, Week 7, Week 8, Week 9, Week 10)

Week 12 - Week 16 (Geometry)

Week 12: Quiz 2 + Trigonometry

Week 13: Trigonometry + Circles

Week 14: Circumference, Area and Solid Geometry

Week 15: Solid Geometry + Combinatorics + Probability

Week 16: Homework Solutions (for Week 12, Week 13, Week 14, Week 15)

Week 17 - Week 23 (Algebra II)

Week 17: Quiz 3 + Algebra I Review

Week 18: Parabola, Ellipse, and Hyperbola

Week 19: Complex Numbers + Polynomials + Rational and Irrational Functions

Week 20: Exponential, Logarithm, Sequences and Series

Week 21: Trigonometry Revisit

Week 22: Homework Solutions (for Week 18, Week 19, Week 20, Week 21)

Week 23: Quiz 4 + Statistics