MATH PATHWAYS

4TH THROUGH 6TH GRADE

The Math curriculum is aligned to the grade-level Common Core State Standards for all courses. Beginning in 4th Grade, all Math courses are differentiated to meet the diverse needs of all learners and include remediation and enrichment. Accelerated and Advanced courses typically enrich the curriculum with deeper critical thinking and application. All math classes are kept to a lower student-to-teacher ratio to allow for optimal learning environments.

4TH GRADE MATH

Classes are small, allowing for optimal learning

- *"enVision" (Saavas)*
- Aligned with California Common Core Standards
- Strong understanding of place value with multi-digit whole numbers
- Build fraction concepts, including equivalence/comparison
- Solve problems involving measurement and geometry
- Explain mathematical thinking using words, numbers, and visual models

4TH GRADE ACCELERATED MATH

Classes are small, allowing for optimal learning

- *"enVision Math" (Saavas)*
- Aligned with 4th and 5th-grade California Common Core Standards
- This class moves at a quicker pace
- Aligned with California Common Core Standards
- Begins with 4th Grade standards and ends the year with the beginning of 5th Grade Standards.

5TH GRADE MATH

Classes are small, allowing for optimal learning

- *"enVision Math" (Saavas)*
- Aligned with California Common Core Standards
- Fluently multiply and divide whole numbers and understand place value through decimals
- Add, subtract, multiply, and divide fractions and solve real-world problems
- Understand and apply volume concepts using formulas and models
- Analyze patterns and relationships in numerical data
- Interpret data and solve problems using measurement and mathematical reasoning

5TH GRADE ACCELERATED MATH

Classes are small, allowing for optimal learning

- *"enVision Math" (Saavas)*
- Aligned with 5th and 6th-grade California Common Core Standards
- This class moves at a quicker pace
- Aligned with California Common Core Standards
- Begins with 5th Grade standards and ends the year with the beginning of 6th Grade Standards.

6TH GRADE MATH

Classes are small, allowing for optimal learning

- *"Math and You" (Big Ideas Learning)*
- *IXL* for skill practice
- Aligned with California Common Core Standards
- Apply ratios and rates to solve real-world problems
- Use fractions, decimals, and percentages fluently in calculations
- Understand expressions, equations, and inequalities
- Analyze data and relationships using graphs and statistical measures
- Solve problems involving area, surface area, and volume
- The students will complete the course with strong foundational early algebra and computation skills and are ready for Pre-Algebra in 7th Grade

6TH GRADE ACCELERATED MATH

Classes are small, allowing for optimal learning

- *"Math and You" (Big Ideas Learning)*
- *ALEKS Online Curriculum* for skill practice
- Aligned with 6th and 7th-grade California Common Core Standards
- Class moves at a quicker pace
- Begins with 6th Grade standards and ends the year with the beginning of the 7th Grade Standards

MATH PATHWAYS
7TH THROUGH 8TH GRADE

7TH GRADE HIGH SCHOOL PREP

- *"Math and You" (Big Ideas Learning)*
- Aligned with California Common Core Standards
- The student will complete the course with a strong foundation in Pre-Algebra and be ready for 8th Grade
- Apply proportional relationships to solve real-world problems
- Operate fluently with rational numbers, including negatives
- Use expressions/equations to model and solve problems
- Analyze data using probability and statistics
- Solve geometric problems involving angles, area, surface area, and volume

7TH GRADE ADVANCED PRE-ALGEBRA

- *"Math and You": Accelerated 7 (Big Ideas Learning)*
- This class moves at a quicker pace
- The year begins with the remaining 7th-grade standards and continues through the 8th-grade CA Common Core Standards.
- The students will complete the course with a strong foundation in Pre-Algebra and will be well-prepared for a full year of Algebra I.

8TH GRADE PRE-ALGEBRA

- *"Math and You": Grade 8 (Big Ideas Learning)*
- Aligned with California Common Core Standards
- Students complete the course with a strong foundation in Pre-Algebra and are ready for high school Algebra I.
- Work with linear equations and systems of equations to model real-world situations
- Understand functions and analyze relationships between inputs and outputs
- Apply the Pythagorean Theorem to solve problems
- Analyze and interpret data using scatter plots and linear models
- Explore geometric concepts, including transformations and congruence

8TH GRADE ADVANCED ALGEBRA I

- *Algebra I (*Houghton Mifflin)
- Aligned with High School Algebra I Standards
- Students will complete the course with a strong foundation in Algebra I.
- Solve linear, quadratic, and exponential equations and inequalities
- Analyze and graph functions to model real-world relationships
- Understand and manipulate expressions and polynomials
- Solve systems of equations using multiple methods
- Interpret data and build mathematical models to make predictions
- Students will be prepared to take high school math placement assessments for accelerated math placement

GEOMETRY

- *Geometry (Glencoe)*
- Aligned with high school Geometry standards
- ONLY offered to students who complete Algebra I in 7th grade
- Students will complete the course with a foundation in Geometry
- Congruence & Proofs, Similarity & Trig, Circle Properties, Coordinate Geometry, 3D Measurement
- Students will be prepared to take high school math placement assessments for accelerated math placement in high school

Administrative and teaching staff review multiple indicators of each student's math skills to determine appropriate course placement. No single measure is used in isolation. Instead, we consider the student's overall ability and motivation, guided by a placement rubric designed to identify the best fit.

Families will receive math placement notifications by email in June. All students entering grades 4-8 are evaluated for accelerated or advanced math based on the following criteria:

- **Three trimesters' worth of report card grades for math (Spring, Fall, Winter)**
- **Six trimesters' worth of STAR scores from the last two years (Fall, Winter, Spring)**
- **ITBS Assessment Score**
- **End-of-Year Math Readiness Assesment**
- **Strong work habits as evidenced by a minimum of 90% homework completion**
- **Strong effort and positive attitude**
- **School attendance**