

A Parent's Guide to Heritage High School Math Rising 9th Course Progression



Below are the most common progressions for mathematics. Each student is different and learns at a different rate. At Heritage High School, it is our goal to accommodate each individual student to learn mathematics in a class that is appropriate for the individual so he/she may get the best math education possible.

Current Course 8 th grade	9 th grade	10 th grade	11 th grade	12 th grade
Math 8 Developing Level	Algebra 1	FADA or Geometry	Geometry or FADA	Algebra 2
Math 8 Mastery Level	Algebra 1	Geometry	Algebra 2	AFM, Pre-Calculus, Multiple options
Algebra 1 Learning Level	Expunge and repeat Algebra 1	Geometry or FADA	FADA or Geometry	Algebra 2
Algebra 1 Developing Level	Expunge and repeat Algebra 1	Geometry	FADA or Algebra 2	Algebra 2 AFM, Pre-Calculus, or Multiple Options
Algebra 1 Mastery Level	Geometry	Algebra 2	Pre-Calculus	College Preparatory Calculus – new course AP Calculus AB or Multiple options.
Geometry Learning Algebra	Algebra 2	AFM	Pre-Calculus	College Preparatory Calculus Multiple Options
Geometry Developing Algebra	Algebra 2	Pre-Calculus	College Preparatory Calculus AP Calculus AB or Multiple Options	AP Calculus AB AP Calculus BC or Multiple Options
Geometry Mastery Algebra Passion for math & science? Pass Advanced Score on Algebra 1 & Geometry SOL?	Algebra 2/Trig**	Math Analysis	College Preparatory Calculus AP Calculus AB, AP Calculus BC, or Multiple Options	AP Calculus AB, AP Calculus BC, Multivariable Calculus, or Multiple Options
Algebra 2/Trig Developing Level	Repeat Algebra 2	AFM or Pre-Calculus	Pre-Calculus, College Preparatory Calculus, AP Calculus AB, or Multiple Options	College Preparatory Calculus AP Calculus AB, AP Calculus BC, or Multiple Options
Algebra 2/Trig Mastery Level	Pre-Calculus	College Preparatory Calculus AP Calculus AB or AP Calculus BC	AP Calculus AB, AP Calculus BC, Multivariable Calculus or Multiple Options	AP Calculus BC, Multivariable Calculus or Multiple Options
Algebra 2/Trig Exceptional student Passion for math & science? Pass Advanced Score on Algebra 2 SOL?	Math Analysis	College Preparatory Calculus AP Calculus AB or AP Calculus BC	AP Calculus AB, AP Calculus BC, Multivariable Calculus or Multiple Options	AP Calculus BC, Multivariable Calculus or Multiple Options

NOTES:

* Algebra Applications counts as a general elective and *not* as a math credit.

- FADA Functions, Algebra, and Data Analysis:
 - This is a good crossover course for those coming out of Algebra 1 "Learning Level" but not yet ready for Geometry. These students may have struggled in Algebra 1 or may have failed the Algebra 1 SOL test.
 - This is a good crossover course for those coming out of Geometry but not yet ready for Algebra 2. These students may have struggled in Geometry and Algebra 1 or they may have seen success in Geometry but struggled in Algebra 1.
- **AFM** Advanced Functions and Modeling:
 - This is a good crossover course for those coming out of Algebra 2 but not quite ready for Advanced Algebra (Pre-Calculus).
- "Multiple Options" includes Computer Math, AP Computer Science, AP Statistics, and Statistics/Discrete Math.
- **"Mastery level" student** refers to those who are being very successful in the current class <u>without</u> the need for tutoring and/or retakes on assessments.
 - These students should be independent learners and can manipulate fractions and decimals <u>without</u> a calculator.
 - (i.e.: They have good number sense).
 - 0 These students know how to graph parent functions and their transformations with and without a TI-84.

****In order to take Algebra 2 with Trigonometry the student should have**

- achieved an A in *both* Algebra 1 and Geometry <u>without</u> tutoring or retakes.
- passed both SOL End Of Course Tests earning "Passed Advanced" on both.

Algebra 2/Trig is a very fast-paced and rigorous course designed for students who excel in mathematics.

Electives:

- Computer Math is another math elective. The co-requisite is Algebra II. After this, you may take AP Computer Science.
- Statistics is another math elective. The pre-requisite for AP Statistics is Algebra II, however a student may take Probability and Statistics/ Discrete Math before AP Statistics.
- Dual Enrollment Multivariable Calculus: A student will only earn a Dual Enrollment credit and the 0.5 weighted bump in his/her GPA if he/she has earned at least a <u>3</u> on the AP Calculus BC exam and successfully completes the course.

Other things to consider:

- Does the student have a love for math and science?
- What will the student's schedule include? How many honors classes? How many Advanced Placement classes? How many dual enrollment classes?
- What extra-curricular events or responsibilities would affect the time available for studies?

Math is <u>not</u> a spectator sport!

Please, encourage your student to attempt all work, be on task, ask questions, and form study groups. If you have questions about your student's recommendation, please contact your student's teacher or the Heritage Mathematics Department Chair, Rita Driskill.