

PWCS Secondary Mathematics Course Sequence Examples**
Leading to an ADVANCED Studies Diploma
Advanced Placement (AP)

		4 High School (HS) Math Credits		5 HS Math Credits	6 HS Math Credits		
Grade 12		Functions/Trig†	Functions/ Analytic Geometry†	AP Calculus BC*	AP Computer Science*		Grade 12
		or AP Statistics*	or Functions/Trig†	or AP Calculus AB*	or AP Calculus BC*		
		Algebra II Algebra II SOL Test	or AP Statistics*	or AP Statistics *	or AP Statistics*		
Grade 11		Algebra II Algebra II SOL Test	Pre-AP Algebra II/Trig or Algebra II	Functions/ Analytic Geometry†	AP Calculus BC*		Grade 11
		Algebra, Functions, and Data Analysis	Algebra II SOL Test	or Functions/Trig†	or AP Calculus AB*	or AP Statistics*	
		Geometry Geometry SOL Test	Pre-AP Geometry or Geometry Geometry SOL Test	Pre-AP Algebra II/Trig or Algebra II Algebra II SOL Test	Functions/ Analytic Geometry†		
Grade 10		Algebra I Algebra I SOL Test	Pre-AP Algebra I or Algebra I Algebra I SOL Test	Pre-AP Geometry or Geometry Geometry SOL Test	Pre-AP Algebra II/Trig Algebra II SOL Test		Grade 10
		Math 8 Pre-Algebra covers 8th grade standards Math 8 SOL Test	Pre-AP Algebra I or Algebra I Algebra I SOL Test	Pre-AP Geometry includes extensions Geometry SOL Test			
Grade 9		Math 7 covers 7th grade standards Math 7 SOL Test	Math 7 Extended half of Grade 7 and all of Grade 8 Math 8 SOL Test	Pre-AP Algebra I with Alg II extensions Algebra I SOL Test			Grade 9
		Math 6 covers 6th grade standards Math 6 SOL Test	Math 6 Extended all Grade 6 and half of Grade 7 Math 6 SOL Test	Math 7 Extended half of Grade 7 and all of Grade 8 Math 8 SOL Test			
Grade 8							Grade 8
Grade 7							Grade 7
Grade 6							Grade 6

2015-16 Grade 6 enrollment: 58% in Math 6, 39% in Math 6 Extended, and 3% in Math 7 Extended

**Many other sequences are possible with additional math electives, such as Trigonometry; Discrete Math; and Probability/Statistics (all semester courses); Computer Mathematics; and AP Computer Science.

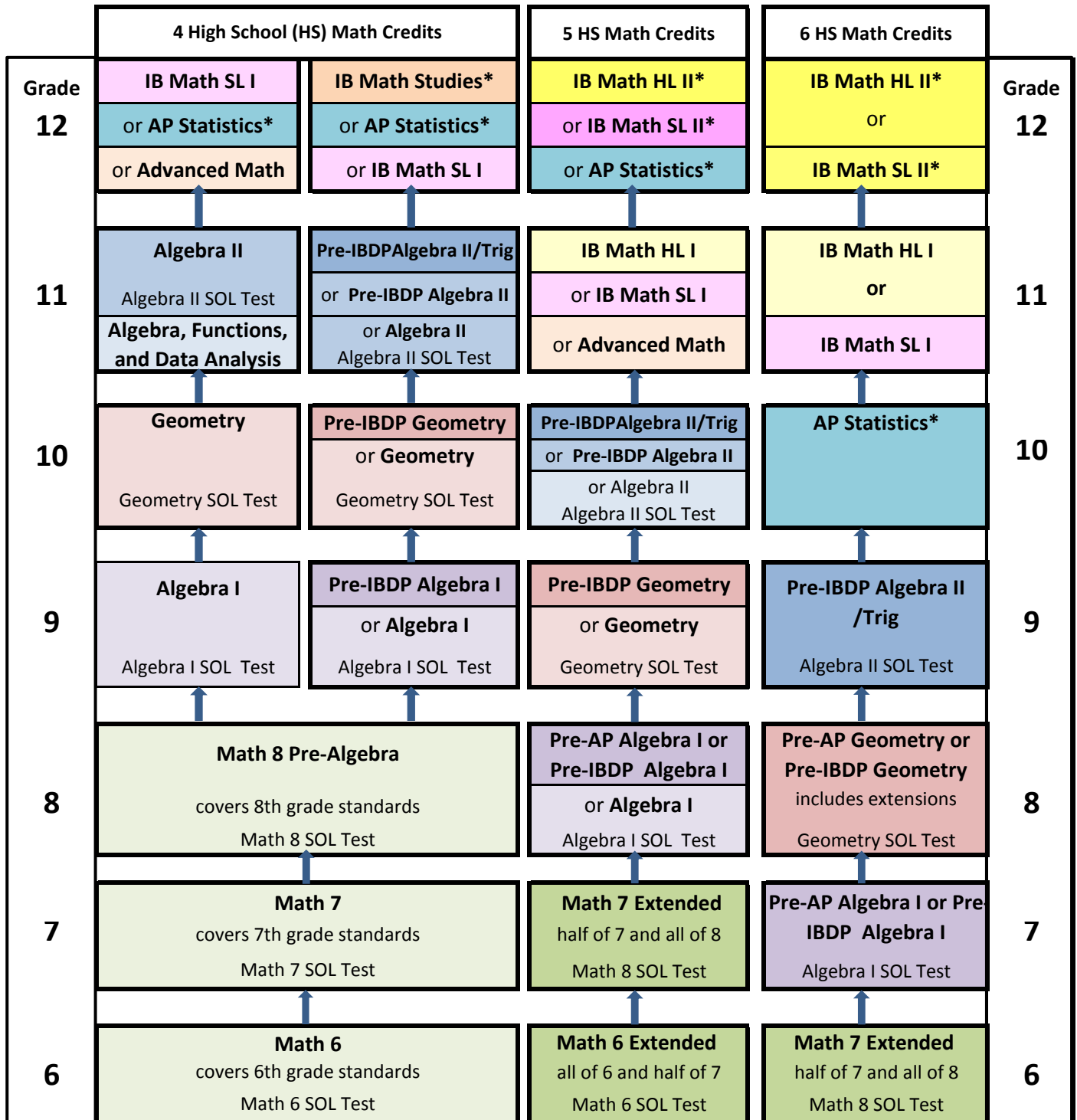
Students in Cambridge or International Baccalaureate Specialty Programs take comparable courses.

* These courses offer possible college credits w/a qualifying score on external exams and college acceptance.

† These courses are Pre-Calculus Courses.

Note: Multiple courses at a grade level are listed from lower level to higher level course w/higher level on top.

PWCS Secondary Mathematics Course Sequence Examples
Leading to an ADVANCED Studies Diploma
International Baccalaureate Programme**



2015-16 Grade 6 enrollment: 58% in Math 6, 39% in Math 6 Extended, and 3% in Math 7 Extended

* These courses offer possible college credits w/a qualifying score on external exams and college acceptance.

**Many other sequences are possible with additional math electives, such as Trigonometry; Discrete Math ; and Probability/Statistics (all semester courses); Computer Math; and AP Computer Science. Students in Cambridge or Specialty Programs with Advanced Placement courses take comparable courses.

Note: Multiple courses at a grade level are listed from lower level to higher level course w/higher level on top.

PWCS Secondary Mathematics Course Sequence Examples**
Leading to an ADVANCED Studies Diploma

Cambridge Programme

	4 High School (HS) Math Credits		5 HS Math Credits	6 HS Math Credits	
Grade 12	AICE Math I* or Functions/Trig† or Advanced Math	AICE Math I* or Func/Analytic Geo† or Functions/Trig†	AICE Math II* AICE Mechanics* (Level A) or AP Calculus AB*	AICE Mechanics* (Level A) or AP Statistics*	Grade 12
Grade 11	Algebra II Algebra II SOL Test Algebra, Functions, and Data Analysis	IGSCE Algebra II/Trig or Algebra II Algebra II SOL Test	AICE Math I* or Functions/Trig†	AICE Math II* or AP Calculus AB*	Grade 11
Grade 10	Geometry Geometry SOL Test	IGSCE Geometry Geometry SOL Test	IGSCE Algebra II/Trig or Algebra II Algebra II SOL Test	AICE Math I* or Functions/Trig †	Grade 10
Grade 9	Algebra I Algebra I SOL Test	Pre-AP Algebra I with Alg II extensions Algebra I SOL Test	IGSCE Geometry or Geometry Geometry SOL Test	IGSCE Algebra II/Trig or Algebra II Algebra II SOL Test	Grade 9
Grade 8	Math 8 Pre-Algebra covers 8th grade standards Math 8 SOL Test	Pre-AP Algebra I with Alg II extensions or Algebra I Algebra I SOL Test	Pre-AP Algebra I with Alg II extensions or Algebra I Algebra I SOL Test	Pre-AP Geometry includes extensions Geometry SOL Test	Grade 8
Grade 7	Math 7 covers 7th grade standards Math 7 SOL Test	Math 7 Extended half of Grade 7 and all of Grade 8 Math 8 SOL Test	Math 7 Extended half of Grade 7 and all of Grade 8 Math 8 SOL Test	Pre-AP Algebra I with Alg II extensions Algebra I SOL Test	Grade 7
Grade 6	Math 6 covers 6th grade standards Math 6 SOL Test	Math 6 Extended all Grade 6 and half of Grade 7 Math 6 SOL Test	Math 6 Extended all Grade 6 and half of Grade 7 Math 6 SOL Test	Math 7 Extended Math 8 SOL Test	Grade 6

2015-16 Grade 6 enrollment: 58% in Math 6, 39% in Math 6 Extended, and 3% in Math 7 Extended

*These courses offer possible college credits w/a qualifying score on external exams and college acceptance.

**Many other sequences are possible with additional math electives, such as Trigonometry; Discrete Math; and Probability/Statistics (all semester courses); Computer Math; and AP Computer Science. Students in Advanced Placement or International Baccalaureate Programs take comparable courses.

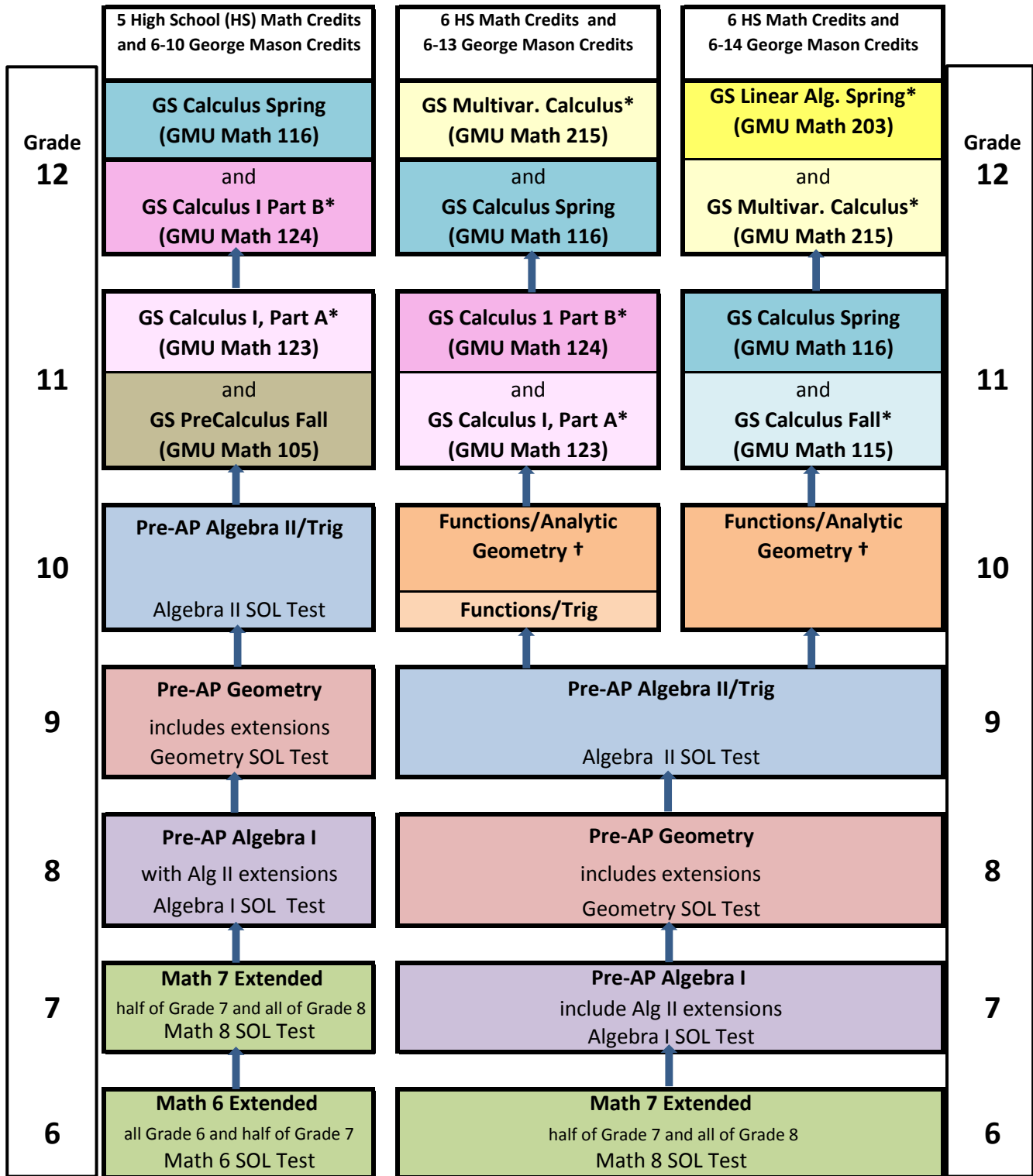
† These courses are Pre-Calculus courses.

Note: Multiple courses at a grade level are listed from lower level to higher level course w/higher level on top.

PWCS Secondary Mathematics Course Sequence Examples

Leading to an ADVANCED Studies Diploma

The Governor's School @Innovation Park (Grades 11 and 12)



2015-16 Grade 6 enrollment: 58% in Math 6, 39% in Math 6 Extended, and 3% in Math 7 Extended

The Governor's School (GS) Math Placement test will determine junior year math placement.

* Courses are also offered as dual enrollment. The school system will pay GMU tuition for one course during the junior year and two courses in the senior year. Two of the three courses paid for must be math.

† These courses are Pre-Calculus courses with Functions /Analytic Geometry being the most advanced.

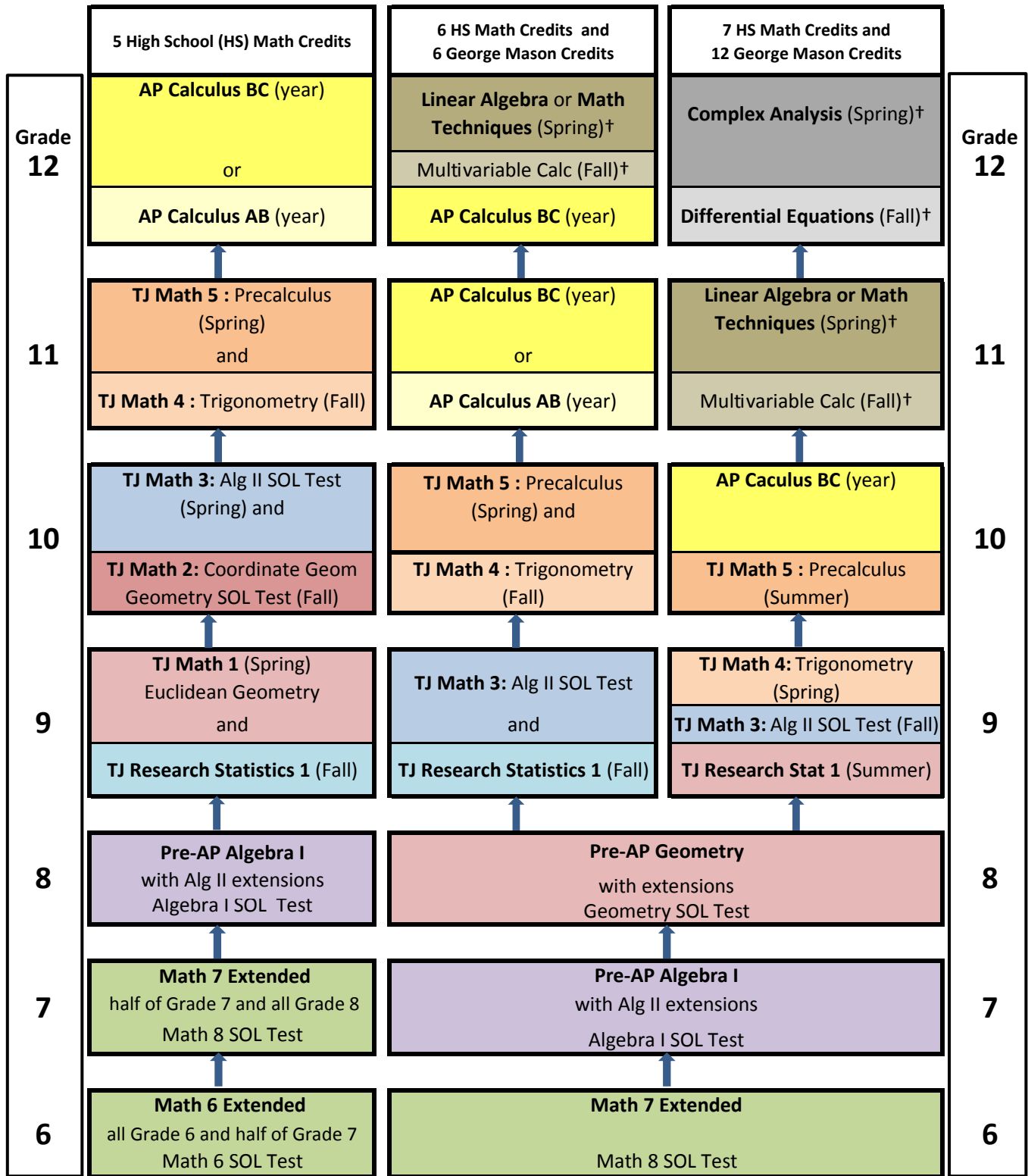
The Pre-Governor School provides the option to concurrently enroll in Pre-AP Geometry and Algebra II.

Note: GS courses for a given grade identify the courses to be taken in Semester 1 (lower) and Semester 2. (upper)

PWCS Secondary Mathematics Course Sequence Examples

Leading to an ADVANCED Studies Diploma

Thomas Jefferson High School for Science and Technology (Grades 9-12)



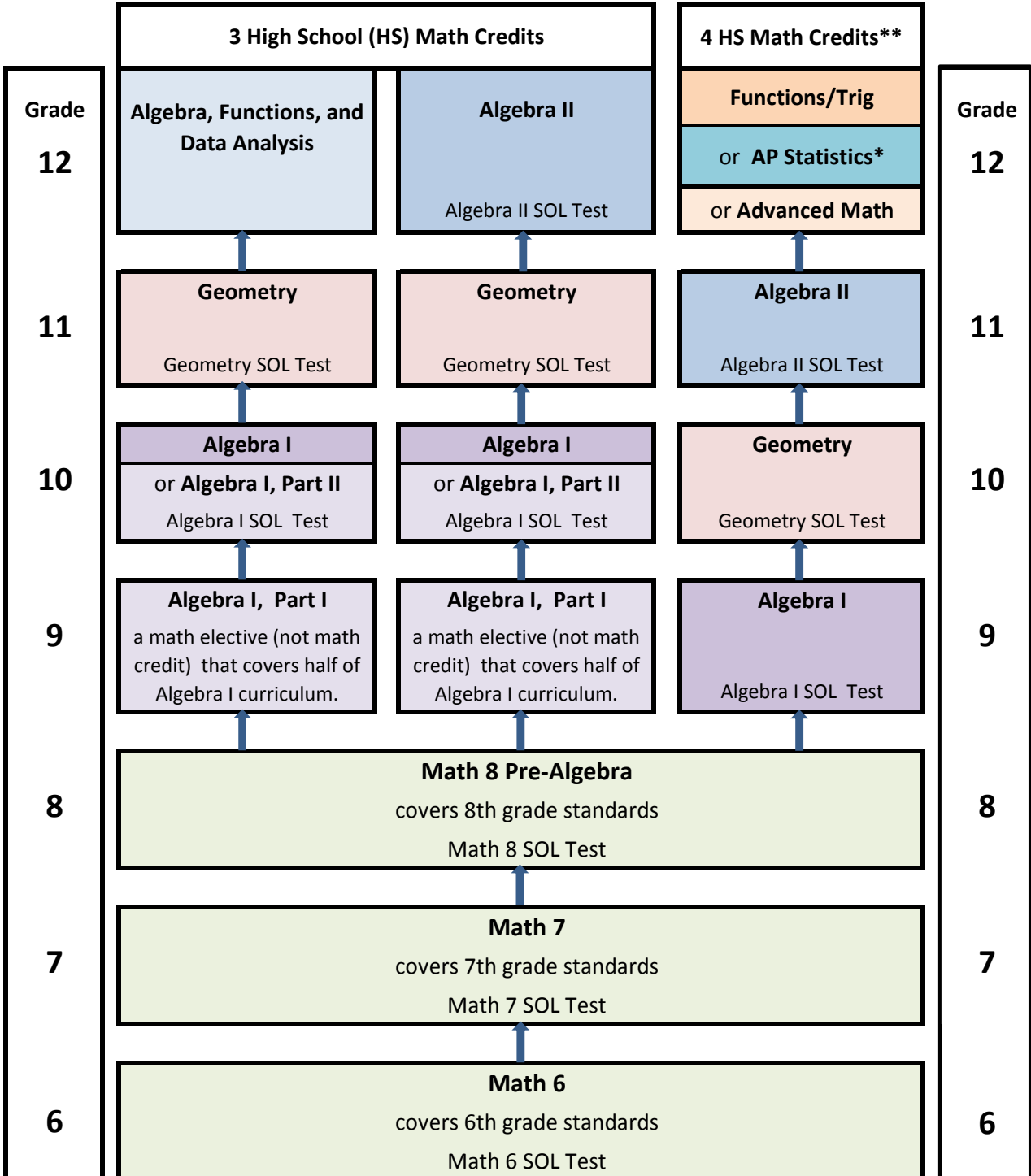
2015-16 Grade 6 enrollment: 58% in Math 6, 39% in Math 6 Extended, and 3% in Math 7 Extended

A diagnostic test will be administered to all students in the latter part of the TJ Stats 1 course, to help confirm the most appropriate course in which students will begin the sequence (TJ Math 1, TJ Math 2, TJ Math 3, etc)

† Course is also offered as dual enrollment. Other non-dual enrollment electives are available after completing Calculus.

Please visit <https://www.tjhsst.edu/research-academics/math-cs/math/math-faq.html> for further information.

PWCS Secondary Mathematics Course Sequence Examples Leading to a STANDARD Diploma



2015-16 Grade 6 enrollment: 58% in Math 6, 39% in Math 6 Extended, and 3% in Math 7 Extended

*The Standard Diploma requires three math credits as specified in the Graduation Requirements. Students earning a Standard Diploma are encouraged to take mathematics all four years of high school.

Many other sequences are possible with additional math electives, such as Trigonometry; Discrete Math; and Probability/Statistics (all semester courses); Advanced Computer Math; and AP Computer Science.

** These courses offer possible college credits w/a qualifying score on external exams and college acceptance.
Note: Multiple courses at a grade level are listed from lower level to higher level course with the higher level on top. Students are better prepared for taking the SAT or taking a Math Placement exam after high school if they have completed or are enrolled in Algebra II.