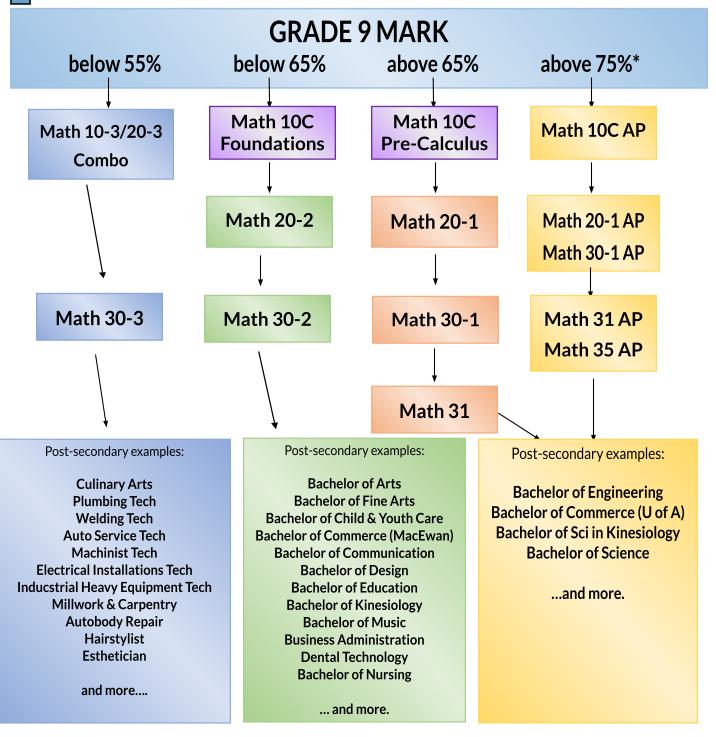
MATHEMATICS CURRICULUM



Please refer to the proficiency checklist for more help in determining the stream that is right for you. Arrows show typical routes in curriculum.

*Students choosing the AP stream should be passionate about learning math. It's not just about your mark, but your commitment to higher level, long term math courses.

A grade above 65% in Math 9 is strongly recommended to take Math 10C Pre-Calculus.

ALWAYS check information with the post-secondary institution and program you wish to apply for.

Prerequisites vary per institution and institutions sometimes change entrance requirements from year to year.

More than Marks: Mathematical Proficiency Check-list for Math 10 Course Selection

When selecting your Math course, consider which of the following skills you use regularly. Check each box that applies to you. Colour half the box if the statement is partially accurate. Take some time to reflect honestly on each point. Keep in mind, each of these items can be improved with practice.

1.	Effort, flexibility & attitude (<i>Productive Disposition</i>) I am self-motivated and put in a high degree of effort	When I think about what I want to do after highschool, how central will Math be to my potential plans?
	 I am diligent and persist when faced with challenging work I regularly get help from sources other than my teacher (peers, textbook, on-line) I believe math is useful and learning math is worthwhile I have a positive attitude towards math; I enjoy working through problems 	A. I'll need advanced Math including calculus. For example: Engineering, Computing Science, Commerce, Kinesiology etc
2.	 ☐ I collaborate well (take turns, ask questions, respectfully challenge and defend ideas) Communicate and justify thinking (Adaptive Reasoning) ☐ I can easily explain my thinking in words and in writing 	B. Advanced Math skills will be important, but I won't need calculus. For example: Nursing, Education, Arts, Communications, Fine Arts, Respiratory Therapy, and others.
	 I easily separate my thinking into small steps I describe specific steps and justify the reasons I chose each step 	C. I am interested in a trade that doesn't require advanced math, or I want to enter the workforce after high school. For example: Culinary
3.	Formulate, represent and solve problems (Strategic Competence) I formulate strategies to solve problems Use models to represent my thinking (draw images and graphs)	Arts, Travel and Tourism, Legal Assistant, Welding, Millwright, most Trade Apprenticeships, and others.
	 □ I pay close attention to details and take a systematic, methodical approach □ I adapt my strategies based on the information presented 	Using the Checklist to Assist with Course Selection Tally the number of checks and record your answer to the question above. Keep in mind this checklist is just one tool to help you determine your best
4.	Use strategies effectively (Procedural Fluency) I use formulas and algorithms quickly and correctly I use strategies or 'tricks' to remember procedures I perform mental math efficiently (in and outside of class) I regularly estimate (in and outside of class)	fit course selection. Each skill can be improved with practice.
5.	Understand concepts (Conceptual Understanding) I understand mathematical concepts. I know the meaning of what I am doing	10C. You may want to consider 10-3. If you have between 10 - 15 checks , you may struggle in 10C (Pre-Calculus).
	I know the reasoning for my choices I recognize connections between different concepts I apply concepts to new situations	You may want to consider 10C (Foundations). If you have between 15 - 20 checks , you may want to consider 10C (Pre-Calculus) or if you are a rigorous student, 10C (Advanced Placement)

Adapted from: http://www.nap.edu/catalog/9822.html; https://www.mathnic.org/tools/06 proficiency.html