

Math Pathways

Jesslin Tan (Garth Webb Secondary School) & Andreea Stoica (Abbey Park High School)

Major Misconception:

- Taking the Academic/University pathway is the only way to keep my child's options open.
- There are very limited options if my child starts in the Applied Pathway.

Gr. 9 & 10 Course Types

Applied	Academic
<ul style="list-style-type: none"> •Develop students' knowledge and skills through <u>practical applications and concrete examples</u>. •<i>Familiar situations are used to illustrate ideas, and students are given more opportunities to experience hands-on applications of the concepts and theories they study.</i> 	<ul style="list-style-type: none"> •Develop students' knowledge and skills through the study of <u>theory and abstract problems</u>. •<i>Focus on the essential concepts of a subject and explore related concepts as well. They incorporate practical applications as appropriate.</i>

Gr. 11 & 12 Course Types

<p>Workplace preparation courses are designed to help students consolidate the basic knowledge and skills of mathematics used in the workplace and in everyday life.</p>	<p>University preparation courses are designed to equip students with the knowledge and skills they need to meet the entrance requirements for university programs.</p>
<p>College preparation courses satisfies the mathematical prerequisites for many college programs, including programs in business, human services, hospitality and tourism, and some of the health sciences.</p>	<p>University/college preparation courses provides preparation for students who plan to pursue technology-related programs in college, while also leaving the option open for some students to pursue postsecondary programs that require the Grade 12 university preparation course</p>

Picking a Pathway for Gr. 9

- Recommendations from Gr. 8 teachers to parents and students
- Most recommendations are based on data from Gr. 6, 7 & 8 (Gr. 6 EQAO data)
- Recommendations are focused on ensuring students success in the transition to high school (Learning skills, work habits etc.)

Expectations for Academic vs. Applied Pathway

Academic	Applied
<ul style="list-style-type: none"> ● Longer lessons ● Fast pace – 1 new concept per day ● More abstract concepts ● Minimum 20-30 mins of practice every night ● Problems are more complex – requires combination of concepts to be recalled 	<ul style="list-style-type: none"> ● Slower pace – 1 new concept every 2-3 days ● More concrete concepts ● More class time to complete practice ● Problems focus on single concepts

Focus on SUCCESS!

- Being successful in a course significantly impacts the mental health of students
- Success builds confidence

- Start by making sure your child is in the appropriate pathway.
- Each pathway focuses on different strengths for different learners
- Certain pathways provide more time to digest the math
- Everyone’s pathway will be unique.

You have many resources at your disposal:

- School Guidance Counsellor
- MyBlueprint
- Classroom teacher – recommendations from previous year

Math Pathway Chart

