

Following the Grade 9 chosen mathematics course, the content in the courses in each of the pathways is distinct and specific to the post-secondary pursuits as indicated below:

Workplace – This pathway increases student skill in the areas of personal finance, reasoning with data, and applications of measurement. The focus is on the application of mathematics in work and personal life.

College – This pathway prepares students for college programs, including apprenticeships in business, hospitality and tourism, and some health sciences (through MAP 4C) and for technology-related programs (through MCT 4C). Refer to individual colleges for specific pre-requisites.

University – This pathway prepares students for university studies in social sciences and humanities (through MDM 4U), business, social sciences and health science programs (through MHF 4U), and science, engineering, and economics (through MCV 4U). Refer to individual universities for specific pre-requisites.

Advanced Placement – This pathway provides students the opportunity to broaden the scope of their mathematics learning at their grade level and to expand and enrich their problem-solving skills preparing students to write the AP Calculus AB and/or the AP Statistics exams.

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Assumption Mathematics Pathways Explained

	LOCALLY DEVELOPED COMPULSORY CREDIT	DE-STREAMED MATHEMATICS	AP PREPARATION MATHEMATICS
Course Characteristics	Content: -money sense -measurement -proportional reasoning	Content: -number -algebra -data -geometry and measurement -financial literacy	Content: -number -algebra -data -geometry and measurement -analytic geometry -systems of linear equations
	Goals: -to develop, enhance and practise mathematical processes, concepts, skills and strategies through a rich variety of activities	Goals: -to develop students' knowledge and skills through practical applications, concrete examples, hands-on investigations and the effective use of technology	Goals: -to extend students' knowledge and skills from concrete understanding towards abstract understanding through problems and practical applications -to develop communication skills in multi-step problem solving
Student Characteristics	Recommended for the student who: -thrives in group learning situations -may require accommodations -benefits from everyday mathematical problem-solving activities	Recommended for the student who: -benefits from directed learning -benefits from learning through application (hands-on) -requires support to develop and maintain organizational skills	Recommended for the student who: -is self-motivated -works independently -takes initiative in task completion -demonstrates organization of course materials and tools
Opportunities	-Workplace preparation -Co-op Placement -College (based on Program requirements) -possible transfer to Applied pathway	-Workplace preparation -Co-op Placement -Ontario Youth Apprenticeship Program -College/University	-Workplace preparation -Co-op Placement -Ontario Youth Apprenticeship Program -University (based on program requirements)

How can you help at home?

- Provide a positive work environment and monitor daily homework and progress
- Encourage your child to seek extra help and agree upon realistic goals with your child
- Expect adherence to school policy and encourage your child to communicate ALL results

Celebrate successes and discuss means of overcoming difficulties in a positive manner.