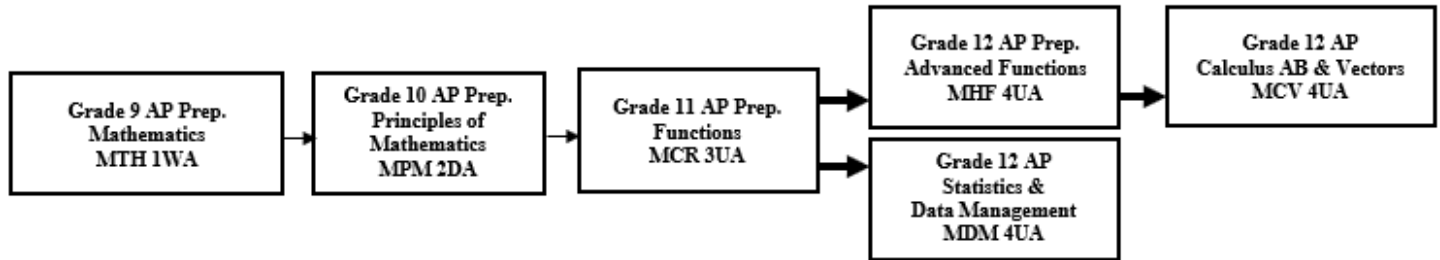




# Assumption Mathematics AP Pathway



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.

Canada's most prestigious mathematics competition  
**EXPLORE! DISCOVER! LEARN!**

## CANADIAN OPEN MATHEMATICS CHALLENGE

Recommended for all students in Grades 7-12

**October 27, 2022**

The only way to be invited to the CMS' free, exclusive training camps & compete internationally as part of Math Team Canada!

Plus, get the opportunity to:

- ✓ Test your knowledge & win prizes!
- ✓ Increase your chance for scholarships with an official certificate for your university applications
- ✓ Participate in fun summer math programs
- ✓ And so much more!

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 Canadian Mathematical Society **COMC.MATH.CA**

## 2022/2023 CONTESTS

NORTH AMERICA AND SOUTH AMERICA

### CANADIAN SENIOR AND INTERMEDIATE MATHEMATICS CONTESTS

Wednesday, November 16, 2022

### CANADIAN COMPUTING COMPETITION

Wednesday, February 15, 2023

### PASCAL, CAYLEY AND FERMAT CONTESTS

Wednesday, February 22, 2023

### EUCLID CONTEST

Tuesday, April 4, 2023

### FRYER, GALOIS AND HYPATIA CONTESTS

Wednesday, April 5, 2023

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# Grade 9 AP Preparation Mathematics

## MTH 1WA

This course enables students to consolidate, and continue to develop, an understanding of mathematical concepts related to number sense and operations, algebra, measurement, geometry, data, probability, and financial literacy. Students will use mathematical processes, mathematical modelling, and coding to make sense of the mathematics they are learning and to apply their understanding to culturally responsive and relevant real-world situations. Students will continue to enhance their mathematical reasoning skills, including proportional reasoning, spatial reasoning, and algebraic reasoning, as they solve problems and communicate their thinking.

This course enables students to develop a confident and positive sense of self. Within the setting of a supportive and caring classroom community, the dignity and value of each student is respected and affirmed. Through their personal growth in reason, critical thinking, and communication, students come to appreciate their mathematical ability as a God-given gift. By sharing their abilities, students contribute to the good of others, in service to the classroom and school community

### How does this course enrich learning and prepare students for university?

#### Develop Critical Thinking Skills

- Interactive environment such as the Building Thinking Classroom Model
- 4-Step Problem Solving Model

#### Develop Ability to Self-Assess

- Teacher-Student conferences
- Time for reflection at the conclusion of each class

#### Develop Communication Skills

- Research tasks, present findings
- Peer teaching

#### Develop Decision Making Skills

- Culture of valuing the learning process in the classroom
- Confidence taking calculated risks

#### Use of Technology in the Classroom

- Use of DESMOS
- Interactive class notes