



Assumption Catholic Secondary School An Advanced Placement School



Grade 9 AP Preparation Mathematics (Course Code: 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