

École Secondaire LAURIER MACDONALD High School 7355 Viau, Saint-Leonard H1S 3C2 Tel: 514-374-6000 Fax: 514-374-7220



COURSE STANDARDS AND PROCEDURES

COURSE: Mathematics 226

CLASS RESOURCES: MHS Workbook, Teacher notes, in-class handouts, Math Help

Services, Google Classroom

COURSE DESCRIPTION: Secondary 2 Math

MYP AIMS ADDRESSED BY THE COURSE: What are the aims/objectives of the course? How do these relate to the MEES competencies?

- Enjoy mathematics, develop curiosity and begin to appreciate its elegance and power
- Develop an understanding of the principles and nature of mathematics
- Communicate clearly and confidently in a variety of contexts
- Develop logical, critical and creative thinking

MYP Course Aims	MEES Course Objectives

 Knowing and understanding Investigating patterns Communicating Applying mathematics in real-life contexts 	TERM 1 Topic 1 - Ratios and Proportions Rate and unit rate Ratios and equivalent rates Comparison of ratios and rates Proportion and proportional situations Ratio of proportionality Inversely proportional situation Solving a proportional situation Percentage of a number Calculating the one hundred percent Topic 2 - Algebraic expressions Term/coefficient/like terms Constructing an algebraic expression Algebraic expressions - addition/subtraction Monomials and degree of a monomial Algebraic expressions - multiplication/division
MYP Course Aims	MEES Course Objectives
 Knowing and understanding Investigating patterns Communicating Applying mathematics in real-life contexts 	Topic 3 – Solving equations Equation Solving equations Equivalent equations Transforming arithmetic equalities Rules for transforming equations Solving equations using the balancing equalities method Topic 4 – Representation of a situation Types of representations of a situation Representation of a situation by a graph Minimum and maximum values Switching from one type of representation to another
MYP Course Aims	MEES Course Objectives

TERM 3

Topic 5 – Circles

• Circle

Knowing and understanding

Investigating patterns

Communicating

- Applying mathematics in real-life contexts
- Circumference
- Central angle
- Arc of a Circle
- Disk/Sector

Topic 6 – Regular Polygons

- Classification of polygons
- Sum of angles of a polygon
- Exterior angles of a convex polygon
- Apothem of a regular polygon
- Area of a regular polygon and a decomposable polygon

Topic 7 – Solids

- Prisms and Pyramids
- Polyhedron nets
- Height
- Apothem of a regular pyramid
- Area of bases, lateral area and total area of a prism and pyramid
- Right circular cylinder
- Lateral or total area of a cylinder
- Area of a decomposable solid
- Finding unknown measurements

Topic 8 – Dilatations and Similar Figures

- Dilatation
- Similar figures
- Ratio of similarity

Topic 9 - Probability

- Random experiment
- Enumerating
- Experimental and theoretical probability
- Events and types of events
- Probability of an event
- Complementary events
- Compatible and incompatible events
- Random experiments with or without replacement
- Dependent and independent events
- Random experiments with or without order

Topic 10 - Statistics

- Surveys
- Qualitative, discrete and continuous quantitative variables
- Reading bar graphs, broken-line graphs and circle graphs
- Distribution table: frequencies and relative frequencies
- Samples
- Sampling methods: random, systematic

Sources of bias
 Constructing graphs: circle graph

KEY INSTRUCTIONAL STRATEGIES/APPROACHES TO LEARNING: Which ATLs will be addressed in the course and how?

Critical thinking skills

- Analyzing and evaluating issues and ideas
- Practice observing carefully in order to recognize problems
- · Gather and organize relevant information to formulate an argument
- Practice visible thinking strategies and techniques
- Utilizing skills and knowledge in multiple contexts
- Apply skills and knowledge in unfamiliar situations
- Transfer current knowledge to learning of new technologies

How will the content be delivered to the students?

- Warm up questions allow students to reflect on previous classes concepts and learning experiences.
- Demonstrate proper mathematical notation within explanation of concepts.
- Formative assessments (pop quizzes, quizzes, homework assignments)
- Group discussions when faced with unfamiliar situations; students discuss appropriate strategies and situations.
- Students combine and apply their mathematical knowledge when solving summative Situational Problems.

IB MYP LEARNER PROFILE: Identify which profile attributes will be addressed in the course and how.

Communicators, Inquirers/Thinkers, Caring

FORMATIVE & SUMMATIVE ASSESSMENT INCLUDING MYP ASSESSMENT:

Term 1 (20% o	f School Course Grade)	
Competencies targeted	Evaluation methods	Timeline
Competency 1: Solves a situational problem (30% of term grade) Competency 2: Uses mathematical reasoning (70% of term grade)	May include but not limited to: - Tests - Quizzes - Assignments/HW and Pop-Quizzes - Situational Problem	Term 1: Sept. 2, 2025 – Nov.6, 2025

Communication to students and parents	Materials required
 Mozaik Parent Portal Progress Report First Term Report Card Communication on an as needed basis 	 Notebook or lined paper, graph paper, Binder for handouts and evaluations Ruler, pencils, and eraser Scientific calculator Internet Access (Outside of the classroom: Home/Library)
IB MYP Criterion	Examples of assessment/feedback both formative and/or summative
A: Knowing and understanding B: Investigating patterns C: Communicating D: Applying mathematics in real-life contexts	- Tests - Quizzes - Assignments - Situational Problem

Term 2 (20 % of	School Course Grade)	
Competencies targeted	Evaluation methods	Timeline
Competency 1: Solves a situational problem (30% of term grade) Competency 2: Uses mathematical reasoning (70% of term grade)	May include but not limited to: - Tests - Quizzes - Assignments - Situational Problem	Term 2: Nov. 7, 2025 - Feb. 6, 2026
Communication to students and parents	Materials required	
 Mozaik Parent Portal Second Term Report Card Communication on an as needed basis Google Classroom 	 Notebook or lined paper, graph Binder for handouts and evalue Ruler, pencils, and eraser Scientific calculator Internet Access (Outside of the Home/Library) 	uations
IB MYP Criterion	Examples of assessment/feedbo and/or summative	ack both formative
A: Knowing and understanding B: Investigating patterns C: Communicating D: Applying mathematics in real-life contexts	- Tests - Quizzes - Assignments - Situational Problem	

Term 3 (60 % of	f School Course Grade)	
Competencies targeted	Evaluation methods	Timeline
Competency 1: Solves a situational problem (30% of term grade) Competency 2: Uses mathematical reasoning (70% of term grade)	May include but not limited to: - Tests - Quizzes - Assignments - Situational Problem - Final Exam	Term 3: Feb. 7, 2026 June 17, 2026
Communication to students and parents	Materials required	
 Mozaik Parent Portal Third Term Report Card Communication on an as needed basis Google Classroom 	 Notebook or lined paper, graph paper, Binder for handouts and evaluations Ruler, pencils, and eraser Scientific calculator Internet Access (Outside of the classroom: Home/Library) 	
IB MYP Criterion	Examples of assessment/feedbo and/or summative	ack both formative
A: Knowing and understanding B: Investigating patterns C: Communicating D: Applying mathematics in real-life contexts	- Tests - Quizzes - Assignments - Situational Problem	

Additional Information/Specifications

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This course does not have a final exam. The final course grade comes entirely from the school course grade.

This course has a final exam administered by the English Montreal School Board. The final course grade is determined by taking 70% of the school course grade and 20% of the school board exam.

	This course has a final exam administered by the Ministère de l'Éducation et de l'Enseignement
Supérie	eur (MEES). The final course grade is determined by taking 50% of the school course grade and
50% of	the MEES exam. Please note that the final course grade is subject to MEEs moderation.