



## Course Outline

Course: MATH 426 (School Year 2014 – 2015)  
 Class resources: Math-help-services.com  
 Course description: Science Stream prerequisite to MATH 506

### Evaluation

Term 1 (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: <ul style="list-style-type: none"> <li>• Tests</li> <li>• Projects</li> <li>• Quizzes</li> <li>• Pop quizzes</li> <li>• Situational Problems</li> </ul>	To finish by Nov. 7
<i>Communication to Students and Parents</i>	<i>Materials Required</i>	
<ul style="list-style-type: none"> <li>• Progress report in October</li> <li>• Report card in November</li> <li>• Written and verbal communication on an as needed basis</li> </ul>	<ul style="list-style-type: none"> <li>• Graph paper and copybook</li> <li>• Ruler, pencils, and eraser</li> <li>• Scientific calculator</li> <li>*Cell phones cannot be used as calculators</li> <li>• Internet access for math-help-services.com</li> <li>• Memory aid.</li> </ul>	

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: <ul style="list-style-type: none"> <li>• Tests</li> <li>• Quizzes</li> <li>• Pop Quizzes</li> <li>• Situational Problems</li> <li>• Midyear Exam (EMSB)</li> </ul>	To finish by Jan. 30
<i>Communication to Students and Parents</i>	<i>Materials Required</i>	
<ul style="list-style-type: none"> <li>• Report card in February</li> <li>• Written and verbal communication on an as needed basis</li> </ul>	<ul style="list-style-type: none"> <li>• Graph paper and copybook</li> <li>• Ruler, pencils, and eraser</li> <li>• Scientific calculator</li> <li>*Cell phones cannot be used as calculators</li> <li>• Internet access for math-help-services.com</li> <li>• Memory aid</li> </ul>	

**Term 3 (60% of School Course Grade)**

<i>Competencies Targeted</i>	<i>Evaluation Methods</i>	<i>Timeline</i>
<p>Competency 1: Solves a situational problem (30% of term grade)</p> <p>Competency 2: Uses mathematical reasoning (70% of term grade)</p>	<p>May include, but not limited to:</p> <ul style="list-style-type: none"> <li>• Tests</li> <li>• Projects</li> <li>• Quizzes</li> <li>• Pop quizzes</li> <li>• Situational Problems</li> <li>• June Exam (MELS)</li> </ul>	<p>To finish by Jun. 5</p>
<i>Communication to Students and Parents</i>	<i>Materials Required</i>	
<ul style="list-style-type: none"> <li>• Report card in June</li> <li>• Written and verbal communication on an as needed basis.</li> </ul>	<ul style="list-style-type: none"> <li>• Graph and lined paper</li> <li>• Ruler, pencils, and eraser</li> <li>• Scientific calculator</li> <li>*Cell phones cannot be used as calculators</li> <li>• Internet access for math-help-services.com</li> <li>• Memory Aid</li> </ul>	

**Additional Information / Specifications**

Topics covered:

Topic 1: Equivalence in Geometry and Algebra (Arithmetic- Algebra- Geometry)

Topic 2- Modeling with Functions (Arithmetic- Algebra- Statistics)

Topic 3- Quadratic Functions and Trajectories (Arithmetic- Algebra- Geometry)

Topic 4- From Correlation to Modeling (Arithmetic- Algebra- Statistics)

Topic 5- Analytical Geometry and Systems of Equations (Arithmetic- Algebra- Geometry)

Topic 6- Trigonometry (Geometry)

Topic 7- Geometric Reasoning (Geometry)

Competency 1: Situational Problems (100%)

Competency 2: Tests (60%); Quizzes (30%); Pop quizzes and/or projects (10%)

- 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 80% of the school course grade and 20% of the school board exam.
- This course has a final exam administered by the *Ministère d'éducation, de loisirs et de sports (MELS)*. The final course grade is determined by taking 50% of the school course grade and 50% of the MELS exam. Please note that the final course grade is subject to MELS moderation.