

**Teacher Name:** Karine Desjardins  
**Email:** kdesjardins@wqsb.qc.ca

**Subject:** Math 563-414  
**Grade Level:** Secondary 4

**Course Description:**

Students will be working on the main themes of the mathematics curriculum: algebra, geometry, statistics and probability

**Course Content:**

Term 1: August 30 <sup>th</sup> – November 4 <sup>th</sup>		20 % of year
Content	Timeline (Dates)	Evaluation Methods
<b>Statistics:</b> <ul style="list-style-type: none"> <li>Scatter plots, linear correlation</li> <li>line of regression</li> <li>percentiles, mean deviation</li> </ul>	September – October	<b>Competency 1: Not evaluated in term 1</b>  <b>Competency 2: Uses mathematical reasoning (70%)</b> <ul style="list-style-type: none"> <li>Homework (10%)</li> <li>Assignments (30%)</li> <li>Tests (60%)</li> </ul>
<b>Analytic Geometry</b> <ul style="list-style-type: none"> <li>Distance between points</li> <li>Equation of a line</li> </ul>	October - November	
Term 2: November 4 <sup>th</sup> – February 23 <sup>rd</sup>		20 % of year
Content	Timeline (Dates)	Evaluation Methods
<b>Analytic Geometry</b> <ul style="list-style-type: none"> <li>Parallel and perpendicular lines</li> <li>Systems of equations</li> <li>Inequalities</li> </ul>	November - December	<b>Competency 1: Solves a situational problem (30%)</b> <ul style="list-style-type: none"> <li>2 -3 situational problems</li> </ul> <b>Competency 2: Uses mathematical reasoning (70%)</b> <ul style="list-style-type: none"> <li>Homework (10%)</li> <li>Assignments (30%)</li> <li>Tests (60%)</li> </ul>
<b>Geometry</b> <ul style="list-style-type: none"> <li>Congruent &amp; similar triangles</li> <li>Metric relations</li> </ul>	January - February	
Term 3: February 24 <sup>th</sup> – June 22 <sup>nd</sup>		60 % of year
Content	Timeline (Dates)	Evaluation Methods
<b>Trigonometry</b> <ul style="list-style-type: none"> <li>Basic trig ratios</li> </ul>	March - April	

<ul style="list-style-type: none"> <li>Sine Law</li> <li>Area of triangles</li> </ul> <p><b>Functions</b></p> <ul style="list-style-type: none"> <li>Properties</li> <li>Quadratic function</li> <li>Exponential function</li> <li>Step &amp; periodic functions</li> </ul>	<p>April - May</p>	<p><b>Competency 1: Solves a situational problem (30%)</b></p> <ul style="list-style-type: none"> <li>2 -3 situational problems</li> </ul> <p><b>Competency 2: Uses mathematical reasoning (70%)</b></p> <ul style="list-style-type: none"> <li>Homework (10%)</li> <li>Assignments (30%)</li> <li>Tests (60%)</li> </ul>
<b>RESOURCES USED:</b>	<i>Visions Textbook Cultural, Social and Technical</i>	
<b>Final Exam</b>	<i>Ministry final exam worth 20% of the year</i>	

\*Course content & timelines may be adjusted as the year progresses to meet the needs of the students\*

**Communication:**

Students will be provided with a minimum of 4 communications throughout the school year.

- October 15<sup>th</sup> – Progress report
- November 20<sup>th</sup> – 1<sup>st</sup> term report card
- March 15<sup>th</sup> – 2<sup>nd</sup> term report card
- July 10<sup>th</sup> – Final report card

**General Information**

- Homework:** You will be expected to complete homework on a regular basis. Homework will not be corrected, it will be marked for *completion* only. Although homework is not heavily weighted, it is crucial to your success as it provides you with the opportunity to practice what has been taught in class.
- Tests:** There will be 1 test per cycle which corresponds to approximately 1 test every two weeks. You will be allowed to prepare a memory aid for each test on an 8.5 by 11 sheet of paper. It is recommended that you carefully keep each memory aid throughout the year to help you with your final review.
- Absences:** You are responsible for getting the notes that you miss from a classmate and completing the required homework.
- Behaviour:** You are expected to be on time for class with all necessary materials. You need to play an active role in your own learning by paying attention to each lesson and asking questions when you need clarifications.
- Resource:** Extra help is available during lunch from 12:00 – 12:45. |

**Standards & Procedures  
2022 - 2023**