



**Standards and Procedures for the 2024-2025 School Year**

**Math Science Option, Secondary Cycle 2, Year 2 (Sec. 4)**

Evaluation and Weighting of Competencies:

Subject Competencies	Term 1 (20%)	Term 2 (20%)	Term 3 (60%)	MEQ Exams
Solves a situational problem (30%)	Situational Problems (100%)	Situational Problems (100%)	Situational Problem (70%) Final Exam (30%)	
Uses mathematical reasoning (70%)	Assignments, interviews/ discussions, end of chapter evaluations, learning reflections (60%). End of chapter evaluations (40%)	Assignments, interviews/ discussions, end of chapter evaluations, learning reflections (60%). End of chapter evaluations (40%)	Assignments, interviews/ discussions, learning reflections (60%). End of chapter evaluations (40%)	Compulsory Uniform Exam (50% of year)  <i>If this changes over the school year schools and families will be informed.</i>

**General Information regarding evaluation:**

Assignments, interviews/ discussions, end of chapter evaluations, learning reflections.

Textbook: Visions Mathematics Secondary Cycle II, Year II – Volumes 1 and 2

- WQSB Virtual Campus teachers provide instruction and evaluation for this course.
- The Virtual Campus respect the timetable for report cards identified by each school.
- Online students will write uniform and complementary exams according to the provincial schedule, where required by the local school.
- Supervision of tests will be provided by the local school.
- Students must complete their own work and complete evaluations independently.
- In cases of cheating:
  - First time, students involved will be given zero on the assignment/test with the opportunity to re-do assignment for maximum of 60%. School/family will be informed.
  - Second time, students involved with be given zero and additional consequences.

**Online Context:** Self-Paced Online Classes – 250 minutes in-school work time per week including 30-minutes of live instructional time

**PROGRESSION OF LEARNING (Compulsory Concepts) – MATH SN 4**

**Algebra – Terms 1 & 2**

- Algebraic expressions: multiplying and dividing polynomials (with or without a remainder)
- Note: Rational expressions (algebraic fractions) are also among the algebraic expressions to be covered
- Factoring polynomials (factoring by grouping)
- Factoring trinomials using roots
- Second-degree algebraic identities (perfect square trinomial and difference of two squares)
- Completing the square (factoring and switching from one way of writing an expression to another)
- First-degree inequalities in two variables
- Systems of first-degree equations in two variables
- Second-degree equations and inequalities in one or two variables
- Systems composed of one first-degree equation in two variables and one second-degree equation
  - in two variables
- Properties of functions
- Second-degree polynomial function
- Step function
- Greatest-integer function:  $f(x) = a [b(x - h)] + k$

**Analytic geometry – Terms 2 & 3**

- Study of straight lines (including parallel and perpendicular lines)
- Distance between two points

**Geometry – Term 3**

- Equivalent figures (in area or volume)
- Properties of congruent, similar, or equivalent figures
- Trigonometric relations in right triangles: sine, cosine, tangent
- Metric relations in right triangles
- Sine law
- Cosine law

**Statistics – Term 1**

- Linear correlation: correlation coefficient (quantitative appraisal) and regression line