TOTAL POODSTAND

CENTENNIAL REGIONAL HIGH SCHOOL

COURSE OUTLINE 2021-2022

Subject: Mathematics Level: Secondary 3

Course Content:

• Arithmetic and Algebra

- Real numbers: rational and irrational
- Inequality relations
- Relations, functions, and inverse
- Manipulating numerical and algebraic expressions
- Analyzing algebraic situations

Statistics and Probability

- Discrete random variable and continuous random variable
- Interpreting probability data and making decisions related to the data
- One-variable distribution
- Analyzing situations involving a onevariable distribution, using appropriate tools, and making decisions related to these situations

Geometry

- Solids
- Analyzing situations involving the properties of figures and solids

Evaluation Methods

Under the Quebec Education Program (QEP), students will be evaluated according to two Mathematical competencies. (see chart)

Term Weighting:

Each term will be weighted.

TERM 1: 40%

TERM 2: 60%

EVALUATING WITH COMPETENCIES

C1: Solves a Situational Problem	C2: Uses Mathematical Reasoning
30%	70%
 A situational problem Has not previously been presented in the learning process Involves using a new combination of rules or principles, that the student may or may not have previously learned, to create a solution Has a solution that has not been encountered before 	 A reasoning problem Requires organization & application of mathematical concepts & processes in a clearly defined context Could be one of three different subtypes: Application: Choose & apply the appropriate mathematical concepts Validation: Justify a statement, check a result/procedure, take a position, provide a critical assessment, or convince using mathematical arguments
 The student will Decode the elements of the problem that can be processed mathematically Represent the problem by using a mathematical 	 Conjecture: Uses inductive, analogical, and deductive reasoning to make a proposition or a conjecture
model	The student will
Work out a mathematical solution	Make conjectures
Validate the solution	Construct & use networks
Share information related to the solution	of mathematical concepts
	& processes
Evaluation Criteria	Construct proofs
CR1 Oral or written indication that the student has an	
appropriate understanding of the situational	Evaluation Criteria
problem CR2 Mobilization of mathematical knowledge	CR3 Proper implementation of mathematical reasoning suited to the situation
appropriate to the situational problem	CR2 Correct application of concepts and processes suited
CR3 Development of a solution appropriate to the	to the situation
situational problem	CR4 Proper organization of the steps in a proof suited to
CR4 Appropriate validation of the steps in the solution	the situation
	CR5 Correct justification of the steps in a proof suite to the situation
	CR1 Formulation of a conjecture appropriate to the situation

Revised: August 2021

^{*}Please note that every student is responsible for any and ALL classes missed and is required to communicate with their teacher ASAP for any work, information, and notes.

^{**}Please refer to the Faculty & Staff Directory at http://www.crhs.rsb.qc.ca/ for your teacher's email/website address