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COLLINGWOOD SCHOOL

MORVEN CAMPUS

70 Morven Drive, West Vancouver, B.C. V7S 1B2 Phone: 604.925.3331 Fax: 604.925.3862

**Course Outline – Mathematics 8 2018-2019**

**HOW TO BE SUCCESSFUL IN MATH 8:**

* Arrive to class on time with proper materials ready to learn
* Be willing to engage in challenging math problems
* Be respectful of the learning process and your peers around you
* Keep up to date and well organized notes
* Check PCR regularly for homework and class updates
* Complete all homework (if you are having difficulty, schedule for an appointment with your teacher)

**COURSE OVERVIEW:**

The big ideas for Mathematics 8 include:

* Reasoning and Analyzing
* Use reasoning and logic to explore, analyse, and apply mathematical ideas
* Use logic and patterns to solve puzzles and play games
* Estimate reasonably
* Demonstrate and apply mental math strategies
* Use tools or technology to explore and create patterns and relationships and test conjectures
* Model mathematics in contextualized experiences
* Understanding and Solving
* Apply multiple strategies to solve problems in both abstract and contextualized situations
* Develop, demonstrate and apply mathematics understanding through play, inquiry, and problem solving
* Visualize to explore mathematical concepts
* Communicating and Representing
* Use mathematical vocabulary and language to contribute to mathematical discussions
* Explain and justify mathematical ideas and decisions
* Communicate mathematical thinking in many ways
* Represent mathematical ideas in concrete, pictorial, and symbolic forms
* Connecting and Reflecting
* Reflect on mathematical thinking
* Connect mathematical concepts to each other and to other areas and personal interest
* Use mathematical arguments to support personals choices
* Incorporate First Peoples worldviews and perspectives to make connections to mathematical concepts

**COURSE CONTENT (UNIT OVERVIEW):**

Unit 1 - Integers

Unit 2 - Fractions and Decimals

Unit 3 - Percents, Ratios & Proportions

Unit 4 - Linear expressions

Unit 5 - Linear Equations

Unit 6 - Linear Relations / Graphing

Unit 7 - Probability

Unit 8 - Pythagorean Theorem

Unit 9 - Geometry

**COURSE TEXTBOOK & RESOURCES:**

* Mickelson R.J. Theory and Problems For Mathematics 8 (workbook provided)
* <http://collingwoodmath.weebly.com>

**MATERIALS: bring with you to class EVERYDAY**

* Pencil
* Lined & graphing paper
* Math Binder
* White board markers (minimum 2) & eraser (tissue paper works great)
* Acceptable computer device

**ASSESSMENT & EVALUATION:**

**Course Mark: 80%**

* + Unit Tests & Quests 40%
  + Quizzes & Assignments: 25%
  + Projects & Investigations 15%

**School Based Final Assessment: 20%**

**POLICIES & PROCEDURES:**

Please ensure that you have read and understand the following Collingwood School policies and documents:

* Punctuality Protocol (for assignments and tests)
* Acceptable Computer Use Policy
* Academic Integrity Document (Plagiarism Policy)
* Habits of A Successful Learner / Work Habits Rubric

**CONTACT:**

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