



Secondary 1 Mathematics 2019 – 2020

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Supplies: Duo-tangs, loose leaf sheets, pencils, eraser, ruler, protractor

Resources: Loyola Math Unit Booklets
Teacher handouts and worksheets
A subscription to IXL is provided by Loyola. (Students must use their **Loyola** IXL account)

Website: Classroom App
Resource Math Page: http://vweb.loyola.ca/powellt/Math1_D/sec1index.htm

Evaluation: **Term mark distribution:** Term 1 - 20% Term 2 – 20% Term 3 – 60%.

Competency 1: Situational problems: 30%.

Competency 2: Communication & Reasoning: 70%
Tests: 50%, Quizzes, Assignments/Homework: 20% (Final weightings may vary).

Exams: At least one Situational Problem will be given each term.
The June exams cover the entire year's work and are worth 50% of the overall term grade.

Homework: Homework is normally assigned daily with time given in class to begin (15-30 minutes). It will be checked regularly and marked sporadically. Review and practice are essential to understanding and retaining the information taught. Late work must be submitted the following day, subject up to a 20% deduction

Quizzes: Quizzes are given without prior warning to evaluate day-to-day understanding of the material.

Tests: Class tests will evaluate the course content and different competencies. Students are given prior warning and are responsible for advising parents/guardian about test results.

Technology: Chromebooks must be charged and be ready for use. Chromebooks remain in bag until requested. Calculators are not permitted.

Tutorials: Teachers will post tutorials and office hours. *Math Extra Help* is available every day after school in room 251.

Course Content:

Students are taught to develop number sense and how to manipulate numbers, allowing them to represent and solve many types of problems. Mathematics is presented to the students as a precise and logical language. Specifically, students are taught the order of operations and how it applies to the set of Rational Numbers. Other topics covered are decimals, fractions, percentages and their interrelationships; geometry definitions, measurement of area and perimeter; algebraic theory and an introduction to basic statistics.

Detailed Course Outline – Sec. 1 Math

Number Sense:	Factors and Multiples, Prime/composite numbers, Prime factoring LCM/GCF – Understanding, “L” method Divisibility Rules for 2, 3, 4, 5, 6, 8, 9, 10, 11, 12 & 25 Order of Operations (BEDMAS) Properties of powers/Square roots
Decimals:	Comparing/ordering, Reading/writing numbers, Rounding/estimating Expanded Notations: Standard form, expanded forms Scientific notation Multiplication/division by powers of 10 Addition and Subtraction rules, Multiplication & Division algorithm Order of Operations (BEDMAS) and exponents Perimeter and Area
Integers:	The Integer line, Comparing/Ordering Addition rules, Subtraction rules (add the opposite) Multiplication and Division rules Exponents (importance of brackets) Order of Operations (BEDMAS) Plotting points on the Cartesian plane Absolute value
Statistics:	Definitions/data collection, Constructing tables Mean, mode, median, range Interpreting/constructing: Bar graph, broken line graph, circle graph, pictograph.
Fractions:	Equivalent fractions, Comparing/Ordering, Simplifying/writing as decimals Mixed numbers/improper fractions Addition and Subtraction rules, Multiplication and Division rules Exponents, Square roots Order of Operations (BEDMAS) Perimeter and Area
Percents:	Converting Fractions/Decimals/Percents Calculating percent of a number Working backwards Applications: Discount, mark-up, taxes, commission, depreciation
Geometry:	Definitions & properties: lines, angles, parallel lines, types of angles Measurement: length, angles Triangle and Quadrilateral properties Perimeter and area: Triangles, quadrilaterals, composite shapes
Algebra:	Algebraic properties: Commutative, Associative, Distributive Additive/Multiplicative identity, Additive/Multiplicative Inverse Variable expressions (replacement) Terms and polynomials Adding/subtracting polynomials Simplify Algebraic Expressions Solving Algebraic Equations