



Math 8 Course Outline

Course Overview

Students develop an appreciation and understanding for new symbols and formulas in their quest to learn math at a higher level. Students are guided in their learning through V-class videos, sample questions, assignments, and tests. Students learn to think critically and appreciate mathematics in today's society.

Course Content and Suggested Timelines

Unit 1 - Numeracy

- Number strategies
- GCF/LCM
- Integers
- BEDMAS
- Intro to Fractions
- Multiplying Fractions
- Dividing Fractions
- Mixed Numbers
- Adding and Subtracting Fractions
- BEDMAS with Fractions

Unit 2 - Exponents

- Exponents
- BEDMAS
- Square Roots and Perfect Squares
- Square Roots of Whole Numbers
- Pythagorean Theorem
- Cubes and Cube Roots

Unit 3 - Equations

- Equations
- Variables
- Substitution
- Equation Solving
- Two Step Solving
- Solving with Fractions

Unit 4 - Percentages and Ratios

- Ratios
- Equivalent Ratios
- Rates
- Percentages
- Problem Solving
- Percent Change
- Combining Percentages
- Unusual Percentages

Unit 5 - Graphing and Tables

- Graph Types
- Graphs and Spreadsheets
- Cartesian Coordinates
- Data Trends
- Equations, Tables and Graphs
- Format Options

Unit 6 - Geometry

- Nets of 3D Objects
- Surface Area
- Volume
- Drawing 3D Objects
- Rotating 3D Objects

Unit 7 - Data Analysis

- Averages
- Mean and Range
- Median
- Mode
- Conclusion
- Probability
- Theoretical Probability
- Multiple Events

Unit 8 - Finance

- History of Finance
- Saving Money
- Percent Discounts
- Percent Increases
- Comparing Prices

Course Materials

- Students will need a scientific calculator for Math 8, mainly for the unit on exponents.
- The prescribed learning outcomes for this course are available at:

<https://curriculum.gov.bc.ca/curriculum/mathematics/8/core>

Assessment Information

Learning Guides – 35%
Quizzes – 20%
Projects (x2) – 15%
Tests – 20%
Final Exam – 10%

When students are not meeting the learning outcomes/ falling behind

When students fall behind the expected pace or plan, they will be contacted via email or phone and if there is no improvement or response, parents will also be contacted. If deemed necessary, contact with the student's home school may also occur to help determine a solution.

Students are expected to let the course teacher know when they are struggling with course content. In response, the course teacher will provide appropriate help or strategies to support learning. The course teacher will also provide feedback on course work to support learning and help students improve. Parents will be made aware if their child is actively working but struggling to meet the learning outcomes of the course.

Students falling behind in a manner where it does not appear that they will complete the course within a year will be sent reminder emails. Without a response or renewed efforts in the course, the student may be assigned an F or withdrawn. Should they begin actively working in the course, the student may be given an alternate completion date.

Expectations

- Adhere to the EBUS Academic Integrity Policy
- Contact your teacher when help is needed
- Review feedback from assignments and tests, where applicable

- Work to complete the course in a timely manner
- Communicate respectfully
- Review weekly progress reports

Reporting to Parents:

There are 4 term report cards that can be downloaded from the student dashboard. A notice will go out when these report cards are available.

Every week that EBUS is in Session the teacher will send out a progress report showing the student's progress

Contacting Your Teacher:

Your teacher will be available Monday - Friday during regular school hours (9:00am to 3:15pm). If you are having trouble with any concepts, please contact your teacher right away!

Teacher: Josh Elke

jelke@sd91.bc.ca

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- Message me on Teams!

- Be sure to keep an eye on the main course page for upcoming Math VClasses.

