



Essentials Mathematics 20

Mr. Underwood
Room 206
(204) 734-7958
dunderwood@svsd.ca

Course description

The Essential Mathematics courses in Grades 10, 11 and 12 are for students interested in post-secondary studies that do not require advanced mathematics. These courses are also for students wanting to learn mathematics for their personal and work-related use after high school, and for some of the trade apprenticeship programs.

Course Expectations

Students should:

- Be prepared for class and have all their learning supplies (calculator, pencil, paper, notes)
- Be respectful of people's comments and belongings
- Be responsible for their own learning
- Be prepared to make mistakes and ask for help
- Be communicating when they are going to be absent from class



Digital Citizenship *SVSD AP 203 Digital Citizenship*

"The Swan Valley School Division is committed to providing an engaging and safe learning environment where the potentially harmful impacts of online platforms and cell phone use is minimized. To support this positive environment, the following personal device or cell phone guidelines will be in place."

*****Absolutely no electronic devices except a calculator are permitted during quizzes, tests, or exams. Students who are caught with electronic devices will receive an automatic zero without debate*****

Cell Phone *SVSD AP 230 Cell Phone Use*

"Grade 9 to 12 students: banned from cell phone use during class time on campus and off campus but are permitted to responsible use of cell phones during break times and lunch."

"Student with medical or diverse learning needs may qualify for exceptions to the Administrative Procedure, however a Student Specific Plan will need to be created to accompany such an exception." If this applies to you and you have not completed this plan, please see me, so we can make arrangements for it to be done.

The term "cell phone" includes tablets, e-readers, smart phones, MP3 players, smart watches, electronic toys or any other personal technology devices.

"The SVSD is not responsible for loss/theft/damages incurred to personal ICT devices including physical or data damage."

Mr. Underwood's Cell Phone policy

- All personal cellular devices/smart watches/ear pods, etc. will be away and out of sight unless an agreement with Mr. Underwood has been made.
- If these devices are seen, Mr. Underwood will take them away for the morning or afternoon.
- If these devices are seen a second time or the student is refusing to give up their device then the SVRSS admin will be getting involved and a parent discussion will be had.

Classroom Implementation of ICT

- All personal cell phone devices will not be allowed in class.
- This will be your first warning, after this if devices are seen they go on my desk. Any conflicts that may arise will be reported to SVSD Admin.
- At times, technology will be used in the classroom to enhance learning in which laptops will be provided to each student.
- Parents/Guardian should be aware that their child will not be able to respond to message/calls received during class time.

Assessment

Formative

This type of assessment gives the student opportunity to make mistakes and learn from those mistakes. Some kinds of formative assessment that I will be using are practice questions with solutions, interviewing, and observation.

Summative

This type of assessment will give students ownership of how well they are doing in the course. Although students should know how well they are doing in the course by their formative assessment these assessments will be used for your mark. Some types of this assessment will be Rich Performance Tasks (Homework, Assignments, and Projects), Tests, and Final Exam.

Evaluation Plan

1. Rich Performance Tasks	15%
2. Tests	65%
3. Final Exam	20%



Topics:

Unit Pricing and Currency Exchange - use proportions to calculate unit pricing and currency exchange

Earning an Income - calculate gross pay and net pay

Length, Area and Volume - calculate surface area, volume, and perimeter

Mass, Temperature and Volume - convert mass, length, volume, and temperature between and within imperial and metric systems

Angles and Parallel Lines - explore angle relationships using various methods, including technology, solve problems involving parallel line properties

Transformations - translate, rotate, dilate and reflect objects on a Cartesian co-ordinate plane

Trigonometry of Right Triangles and Similarity of Figures - use right triangle trigonometry, the Pythagorean Theorem and similar triangles to solve problems

Important Notes

- Students will be given the opportunity to re-do one (1) summative assessment over the course of the semester. Additional re-do opportunities only exist at the discretion of the teacher.
- Students must request lesson videos or assignments on Teams before 3:40 pm, as the teacher will not be posting lessons online daily.
- Missing Tests:
Any student missing an important summative assessment like a test may be required to be assessed with an alternate and possibly more challenging assessment (Rationale: student has created an advantage by having more time to prepare and/or discuss assessment items). Missing an assessment with parental permission, illness, field trip, court appearance, etc. may still warrant an alternate assessment as per the instructor.
- Final Examination:
If a student's final exam mark is higher than their term mark, the final exam weighting will be considered at 100% by teacher discretion. That is, if a student scores higher on the final exam than their term mark, the final exam score becomes their final course grade. This will NOT be considered in reverse (i.e. the final exam will hold a minimum respective weight as per the course outline).

Interventions:

Focus must be on academic success in this course. Should there be a concern about a lack of learning:

- participation in extra-curricular activities will be suspended
- a plan will be decided upon in order to improve academic success
- extra-curricular participation will resume when improvement has been achieved, parents will be informed of the plan

Course Structure

	Unit	Outcomes	Assessment
Sept 11 to Sept 29	Unit Pricing and Currency Exchange	C1	Practice Questions (F) Test(S) Homework/Assignment (S)
Oct 1 to Oct 20	Earning Income	P1, P2	Practice Questions (F) Test(S) Homework/Assignment (S)
Oct 21 to Nov 9	Length, Area and Volume	M1, M2, M3, M4, G1, G2	Practice Questions (F) Test(S) Homework/Assignment (S)
Nov 10 to Nov 25	Angles and Parallel Lines	Ac1, Ac2	Practice Questions (F) Test(S) Homework/Assignment (S)
Nov 26 to Dec 8	Trigonometry	Tg1, Tg2, Tg3	Practice Questions (F) Test(S) Homework/Assignment (S)
Dec 9 to Dec 18	Similarity of Figures	TF1	Practice Questions (F) Test(S) Homework/Assignment (S)
Jan 4 to Jan 20	Mass, Temperature and Volume	M1, M2, M3, M4	Practice Questions (F) Test(S) Homework/Assignment (S)
Jan 21 to Jan 28	Puzzles/Review	A1	Practice Questions (F)
Feb 1 to Feb 5	Exam	A1	Exam (S)