



Essentials Mathematics 40

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Course description

This course is for students who are interested in post-secondary programs that do not require advanced mathematics. It is 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 others 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.”

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 Provincial Exam.

Evaluation Plan

1. Rich Performance Tasks	15%
2. Tests	55%
3. Projects	10%
4. Exam	20%



Topics:

Vehicle Finance – solve problems that involve acquisition, operation and maintenance of a vehicle.

Home Finance – solve problems involving the purchase and maintenance of a house

Precision Measurement – analyze and solve problems involving precision, accuracy, tolerance, and uncertainty.

Trigonometry – solve problems using sine law and cosine law.

Polygons – solve problems involving triangles, quadrilaterals, and regular polygons.

Career Life Project – create a plan for the future, including possible career choices.

Statistics – solve problems involving measures of central tendency and percentiles.

Probability and Odds – analyze and interpret problems involving probability.

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

Important Notes

- **Students must complete the Career Life Project to attain their credit or may be given an incomplete in the course until the project is finished.**
- Students must request lesson videos or assignments on Teams before 3:40 pm, as the teacher will not be posting lessons online daily.
- **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.**
- **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%. 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).
- The final exam will be the Department of Education's Provincial Examination, or an exam created by the teacher which will be equivalent to the Provincial exam.

- The final exam is intended to be a comprehensive evaluation of your math skills and knowledge.

****Students with an average score of <50% may be denied the opportunity to write the Provincial Achievement Test at the discretion of the instructor. Students who do not write the Provincial Achievement Test cannot receive credit in the course.**

Rationale: Students are given the opportunity to rewrite 1 (and sometimes more) tests during the course of the semester, if they have shown that they have done work to improve their knowledge. Essentially, there is no reason for a student not to have their mark at 50% going into the exam given the opportunities they are being afforded. Additionally, experience has shown that students with less than 50% in the course generally are not successful on the exam.

Course Structure

	Unit	Outcomes	Assessment
Sept 9 to Sept 29	Home Finance	H1, B1, B2	Practice Questions (F) Test(S) Homework/Assignment (S)
Oct 1 to Oct 10	Statistics	S1, S2	Practice Questions (F) Test(S) Homework/Assignment (S)
Oct 14 to Nov 12	Vehicle Finance	V1	Practice Questions (F) Test(S) Homework/Assignment (S)
Nov 13 to Nov 25	Probability	PR1	Practice Questions (F) Test(S) Homework/Assignment (S)
Nov 26 to Dec 4	Polygons	G2	Practice Questions (F) Test(S) Homework/Assignment (S)
Dec 5 to Dec 10	Trigonometry	G1	Practice Questions (F) Test(S) Homework/Assignment (S)
Dec 11 to Dec 19	Precision Measurement	P1	Practice Questions (F) Test(S) Homework/Assignment (S)
Jan 5 to Jan 21	Career Life Project/Review	A1, C1	Practice Questions (F) Project (S) Exam (S)
January 5 - 21	Provincial Exam JANUARY 21 2026		