



Essentials Mathematics 30

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

Course description

The Essential Mathematics course is for students who are interested in post-secondary studies 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. The topics studied in this course are Analysis of Games and Numbers, Interest and Credit, 3-D Geometry, Statistics, Managing Money, Relations and Patterns, Trigonometry and Design Modeling.



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 (not on your cell phone or distracting others)
- Be prepared to make mistakes and ask for help

Digital Citizenship

SVSD AP 203 Digital Citizenship and AP 230 Cell Phone Use

“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.”

“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.

“Teachers may direct Grade 9 to 12 students...to use cell phones for educational purposes.”

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

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

Classroom Implementation of ICT

- All devices will be handed into the bucket or placed on the teacher's desk. If any staff member requests you to hand in your device, you are required to do so according to the SVRSS School Code of Conduct
- At times, technology will be used in the classroom to enhance learning in which laptops will be provided to each student.
- If a student is leaving class to go to the washroom or other tasks, the device will remain in the classroom.
- 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:

Financial Services - solving problems involving simple and compound interest, the cost of credit, including finance charges, credit cards, and loans

Surface Area, Volume and Capacity - solving problems involving surface area and volume, using metric and imperial systems

Personal Budgets - solve problems involving personal budgets and financial services

Slope and Rate of Change - solve problems involving scale drawings, slope, proportional reasoning, the manipulation and application of formulas

Graphical Representations - create and interpret various graphs

Trigonometry - solve problems involving 2 and 3 right triangles

Scale Representations - model and draw 3D objects, including exploded views, component parts and scale diagrams

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.
- 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 once a zero and missing is placed in PowerSchool. (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).

Course Structure

	Unit	Outcomes	Assessment
Feb 5 to Feb 14	Trigonometry of Right Triangles	TG1	Practice Questions (F) Test(S) Homework/Assignment (S)
Feb 18 to March 7	Slope	R1, R2, R3, R5	Practice Questions (F) Test(S) Homework/Assignment (S)
March 10 to March 28	Surface Area, Volume and Capacity	G1, G2, G3	Practice Questions (F) Test(S) Homework/Assignment (S)
April 7 to April 28	Financial Services	I1, I2, I3	Practice Questions (F) Test(S) Homework/Assignment (S)
April 29 to May 14	Personal Budgets	M1, M2	Practice Questions (F) Test(S) Homework/Assignment (S)
May 15 to May 30	Graphical Representation	S1, R5	Practice Questions (F) Test(S) Homework/Assignment (S)
June 2 to June 13	Scale Representations	D1, D2, R4	Practice Questions (F) Test(S) Homework/Assignment (S)
June 16 to June 27	Puzzles/Review/Exam	A1	Practice Questions (F) Exam (S)