



Grade 10 Applied Pre-Calc 20SAP

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Course description

The grade 10 pre-calc and applied stream is developed for students pursuing post-secondary in the math and science areas. This class will focus on four aims and goals set by the Ministry of Education which are as follows: Number Sense, Logical Thinking, Spatial Sense, and Mathematics as a Human Endeavour. The topics studied form the foundation for topics to be studied in both Grade 11 Applied Mathematics and Grade 11 Pre-Calculus Mathematics.

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 and Assignments), Tests, and Final Exam.

Evaluation Plan

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| 1. Rich Performance Tasks (Assignments, Quiz, Etc) | 10% |
| 2. Tests | 70% |
| 3. Final Exam | 20% |

Topics:

- Factors & Products - factor and multiply polynomials
- Roots & Powers - apply exponent laws to solving problems involving negative, fraction, and decimal exponents
- Trigonometry - solve problems using right triangle trigonometric methods
- Relations & Functions – represent linear relations
- Linear Functions – graph linear functions
- Systems of Linear Functions – analyze and solve linear relations
- Measurement - solve problems involving surface area and volume of various objects; estimate and convert linear measurement between and within imperial and metric systems

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 (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 |
|--------------------------|------------------------------|---------------------|--|
| Sept 6 to Sept 27 | Factors and Products | A1, A2, A4, A5 | Practice Questions (F) Test(S) Homework/Assignment (S) |
| Oct 1 to Oct 24 | Roots and Powers | A3 | Practice Questions (F) Test(S) Homework/Assignment (S) |
| Oct 28 to Nov 14 | Relations and Functions | R1, R2, R4, R5, | Practice Questions (F) Test(S) Homework/Assignment (S) |
| Nov 18 to Dec 2 | Linear Functions | R3, R6, R7, R8, R10 | |
| Dec 3 to Dec 13 | Systems and Linear Equations | R9 | Practice Questions (F) Test(S) Homework/Assignment (S) |
| Dec 16 to Jan 9 | Measurement | M1, M2, M3 | Practice Questions (F) Test(S) Homework/Assignment (S) |
| Jan 10 to Jan 17 | Trigonometry | M4 | Practice Questions (F) Test(S) Homework/Assignment (S) |
| Jan 20 to Feb 1 | Review/Exam | | Practice Questions (F) Exam (S) |