

Mathematics - Applied and Pre-Calculus 20SAP - MAT20SAP

Course Outline

Instructor: Ms. Lynda Malkoske

Contact Information: Phone 204-734-4511 Ext. 2201 or 204-734-7954 (direct line)

Email lmalkoske@svsd.ca

Required Supplies: binder, notebook, scientific calculator, pencils and lead, textbook

Optional Supplies: graph paper, highlighters, ruler

Classroom Expectations:

- ✓ Please be on time for class with all necessary materials (booklet, textbook, calculator, pencils)
- ✓ If you are away from class, ask a classmate for the notes/assignment or request a recording from me (if possible).
- ✓ Communication will be via Teams. Ensure that notifications are enabled on your device.
- ✓ Most graded assignments will be submitted electronically through Teams.
- ✓ Daily practice problems will be checked by the student on their own time using the answer keys provided. Students should ask for clarification on questions they did not understand or completed incorrectly.
- ✓ Only 1 student is permitted to leave the classroom at a time with the TEACHER'S PERMISSION and must use the sign out form by the door when leaving and again upon their return.
- ✓ Students will be dismissed by the teacher, not the school's bell system. Students are required to remain seated prior to dismissal.
- ✓ Expectations will be discussed regarding food/beverages in the classroom.

Digital Citizenship:

General Guidelines

SVSD AP 203 Digital Citizenship and SVSD AP 230 Cell Phone Use

"Senior Years & Post-Secondary - SVSD devices are to be used in the classroom for learning. Students are banned from using personal devices during class time unless directed by the teacher for an educational activity. Swan Valley School Division is committed to equitable access to all learning activities by students, so Divisional I.C.T. devices will always be the first option provided to students."

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

Classroom Implementation

- At times, technology will be used in the classroom to enhance learning. Stream books will be provided for this purpose. Personal devices are not permitted during quizzes, tests or exams.
- Use of technology devices, when allowed, must be in the full view of the teacher.
- Phones/personal devices will be stored in a common location determined by the teacher.
- Earbuds must be removed during class time.
- Personal devices are to be left in the classroom when a student leaves the room during class time.
- Parents/Guardians should be aware that their child will not be able to respond to messages/calls received during class time.
- Any audio recording, video recording or still photography within the learning environment is only allowed with the TEACHER'S PERMISSION.

Evaluation:

10% Rich Performance Tasks (assignments, quizzes, etc.)
70% Tests
20% Exam

Assessment and Evaluation:

- Reasonable timelines will be set for all work. All efforts to complete assignments must be made.
- Access the PowerSchool app to track your progress in your courses.
- Students will be given the opportunity to re-do one (1) summative assessment over the course of the semester.
- Reasonable notification of test dates will be given. If a student misses a test for any reason, a test different from the one written by the majority of the class may be used. The student must make arrangements to write the missed test.
- A comprehensive common exam based on the essential outcomes will be used at the end of the course, subject to change. The final exam for this course will take place at some point between February 1 and 5. Please plan accordingly. If a student's final exam mark is higher than their term mark, the final exam weighting will be considered at 100%.
- Learning Behaviours including Personal Management Skills (Do you complete your homework and assignments on time; do you seek help when you need it); Active Participation in Learning (Do you show interest in the topics by asking questions) and Social Responsibility (Do you work and interact well with others; are you welcoming and positive; are you respectful of yourself, others and the environment...includes cell phone use and lateness) are assessed during formal reporting times and are recorded on the report card.

Interventions:

We, at the SVRSS, encourage participation in extra curricular activities and school events. However, missed classes will impact your learning and you must commit to attaining the knowledge you have missed and keeping up with the class pace. 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

Class Expectations/Beliefs:

It is expected that all members of the school community will uphold the underlying beliefs of the School Code which include the following: Learning, Respect, Responsibility and Safety.

Course Description:

Grade 10 Introduction to Applied and Pre-Calculus Mathematics is intended for students considering post-secondary studies that require a math pre-requisite. This pathway provides students with the mathematical understanding and critical-thinking skills that have been identified for specific post-secondary programs of study. The topics studied form the foundation for topics to be studied in both Grade 11 Applied Mathematics and Grade 11 Pre-Calculus Mathematics.

Topics:

- Factors & Products - factor and multiply polynomials
- 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
- Roots & Powers - apply exponent laws to solving problems involving negative, fraction, and decimal exponents