

Math 20SAP Course Outline

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Course Description:

Grade 10 Introduction to Applied and Pre-Calculus Mathematics is intended for students considering post-secondary studies that require a math prerequisite. 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 and 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 and Powers – apply exponent laws to solve problems involving negative, fraction, and decimal exponents

Supplies needed:

Binder, looseleaf, scientific calculator (not on cell phone), pencils, graph paper, ruler, protractor

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

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 instructor. A comprehensive common exam based on the essential outcomes will be used at the end of the course.

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).

Learning Behaviours:

Personal Management Skills, Active Participation in Learning and Social Responsibility are assessed during formal reporting times and are recorded on the report card.

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 immediately
- parents will be contacted to discuss options
- use RTI block and if necessary, noon hour tutoring and/or after school tutoring if available

Digital Citizenship:

Use of personal devices is **not allowed during class time**. As mandated by the province, **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.** Devices or distractions will be out of sight while class is in session. Once attendance is taken and class begins any distractions need to be removed by placing them in a binder or backpack. If distractions are consistent, you will be asked to place your device in a safe place at the front of the room. There are also locations available to charge devices during class time.

*"All members of the Swan Valley School Division community are expected to use digital technology in a safe, respectful, responsible, and ethical manner. SVSD devices are to be used in the classroom for learning. Students are encouraged to use these devices **as supported by the classroom teacher for positive educational benefits** and guided classroom instruction.*

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

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. Everything we do focuses on providing learning opportunities for all members of our school community. Be respectful of each other, the classroom, and our school environment. Come ready to learn! Make wise choices! And keep everyone safe physically and emotionally!