

Math 10F

Course Outline

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Course Description:

Grade 9 Mathematics is designed to give students an overview of all topics of mathematics and prepare them for Essential Math or Introduction to Applied and Pre-Calculus Math in Grade 10. You will be awarded 1 credit if you demonstrate an acceptable understanding of the outcomes.

Topics:

Rational Numbers - add, subtract, multiply and divide rational numbers (including positives, negatives, fractions, decimals, and percent) to solve problems

Square Roots, Powers and Exponents - consistently use exponent laws to solve algebraic problems

Polynomials - add, subtract, multiply and divide polynomials with 2 as the exponent, but with exposure to higher degrees

Equations and Inequalities - solve equations and inequalities with single variables

Linear Relations - create, graph and interpret algebraic equations

Surface Area - calculate surface area of composite 3D objects

Similarity and Transformations - compare similar shapes, and enlarge, reduce, reflect, rotate, and slide polygons

Circle Geometry - demonstrate an understanding of relevant vocabulary and apply solution strategies using circle properties

Probability and Statistics - demonstrate an understanding of relevant vocabulary and develop a project plan for the collection, display and analysis of data

Enrichment Topics – Factoring, Coordinate Geometry, Exponents, Etc. as time allows.

Assessment:

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

****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
- 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

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. I have provided you with a safe place for your device 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!