



Mathematics Foundations 10TF Syllabus

Mr. Underwood
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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 earn 2 credits if you demonstrate an acceptable understanding of the outcomes.

Course Expectations

Students should:

- Be prepared for class and have all their learning supplies (calculator, pencil, paper, notes)
- Be respectful of people's comments and belongings
- Be responsible for their own learning
- Be prepared to make mistakes and ask for help
- Be communicating when they are going to be absent from class



Digital Citizenship *SVSD AP 203 Digital Citizenship*

"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."

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

Cell Phone *SVSD AP 230 Cell Phone Use*

"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.

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

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

Mr. Underwood's Cell Phone policy

- All personal cellular devices/smart watches/ear pods, etc. will be away and out of sight unless an agreement with Mr. Underwood has been made.
- If these devices are seen, Mr. Underwood will take them away for the morning or afternoon.
- If these devices are seen a second time or the student is refusing to give up their device then the SVRSS admin will be getting involved and a parent discussion will be had.

Classroom Implementation of ICT

- All personal cell phone devices will not be allowed in class.
- This will be your first warning, after this if devices are seen they go on my desk. Any conflicts that may arise will be reported to SVSD Admin.
- At times, technology will be used in the classroom to enhance learning in which laptops will be provided to each student.
- 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

1. Rich Performance Tasks	10%
2. Tests	70%
3. Final Exam	20%



Topics:

Rational Numbers - add, subtract, multiply and divide rational numbers (including positives, negatives, fractions, decimals, and percents) 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 - solving equations and inequalities with single variables

Linear Relations - create, graph and interpret algebraic equations

Surface Area - calculating 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

Financial Literacy – describing the way money is used in our lives by looking at jobs with deductions, different types of interest, budgeting.

***Enrichment and remediation in related topics will be provided when deemed necessary.

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.
- Students must request lesson videos or assignments on Teams before 3:40 pm, as the teacher will not be posting lessons online daily.
- 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% by teacher discretion. 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).

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

Course Structure

	Unit	Outcomes	Assessment
Sept 11 to Oct 8	Integers and Rational Numbers	N3, N4	Practice Questions (F) Test(S) Homework/Assignment (S)
Oct 9 to Nov 13	Square Roots, Powers and Exponents	N1, N2, N5, N6	Practice Questions (F) Test(S) Homework/Assignment (S)
Nov 16 to Dec 4	Polynomials	Pr5, Pr6, Pr7	Practice Questions (F) Test(S) Homework/Assignment (S)
Dec 7 to Dec 18	Surface Area	SS2	Practice Questions (F) Test(S) Homework/Assignment (S)
Jan 4 to Jan 28	Linear Equations and Inequalities	Pr4	Practice Questions (F) Test(S) Homework/Assignment (S)
Feb 8 to March 3	Linear Relations	Pr1, Pr2, Pr3	Practice Questions (F) Test(S) Homework/Assignment (S)
March 4 to March 25	Similarity	SS2, SS4	Practice Questions (F) Test(S) Homework/Assignment (S)
April 5 to April 27	Transformations	SS5	Practice Questions (F) Test(S) Homework/Assignment (S)
April 28 to May 21	Circle Properties	SS1	Practice Questions (F) Test(S) Homework/Assignment (S)
May 25 to June 9	Statistics and Probability	Sp1, Sp2, Sp3, Sp4	Practice Questions (F) Test(S) Homework/Assignment (S)
June 10 to 21	Review for Cumulative Exam/Financial Literacy		Practice Questions (F)
June 22 to June 28	Final Exams		Exam (S)

*****Please note some of these units will be taught throughout the year or at a different time to go with the new grade 9 math curriculum. *****