

Mathematics - Foundation 10TF – Grade 9 Math
MAT10TF
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 2 credits 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 and remediation in related topics will be provided when deemed necessary.

Supplies Needed:

Binder	loose-leaf
Scribbler	scientific calculator (separate from your phone)
graph paper	pencils
highlighter	pencil sharpener/lead
ruler	protractor

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, subject to change due to changing health orders.

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:

During class time, personal devices are to be set on silent and put in a location where they won't cause a distraction. As a student, if you put your device in your pocket and feel the vibration and then have a need to look at what you just received, that is a distraction. Even if you don't actually look at it, your focus has been taken away from the class, even momentarily. The solution is to put your device somewhere in which you won't notice the vibration: purse, bucket, binder (if it's not on your desk), locker, counter. Choose wisely. If I see that your device is causing a distraction, then I will have to choose where it is stored. This is about teaching you, the student, responsibility with your device. Personal devices can be powerful tools that make our lives easier, but it is necessary to learn how to use them responsibly. At times, technology (personal devices, stream books, graphing calculators, etc.) will be used in the classroom to enhance learning. If required, the classroom may need to become a **phone free zone** and all phones/personal devices would be stored in a common location determined by the teacher. During assessments/tests, all personal devices will be stored in a common location in the classroom.

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.

As a result of COVID-19, there are some additional pieces that students need to be aware of in terms of procedures, content delivery, and assessment & evaluation. This is subject to change according to health orders.

Procedures:

- sharing of supplies is permitted, provided hand sanitizer is used before and after sharing
- washroom breaks/leaving the classroom will be minimal and will require a sign in/sign out procedure; only one person is permitted to leave at a time (regardless of reason)
 - upstairs classrooms must use the upstairs washrooms
- seating will be assigned; switching is not permitted at any time
- mask use: mask breaks may be allowed at the discretion of the teacher if you are in your desk, working independently and maintaining 2m/6ft distance from others.
- If I come to assist you with your work, I would ask that you put your mask on as we will not be socially distanced. If working with another student, you will have to be wearing masks.
- personal devices (if available) will be used to access some assignments and submit some completed assignments

Content Delivery:

- Lessons will be taught daily and recorded when possible.
- Attempts will be made to live stream the lesson, when necessary. If we have to do learning from home, I will be live streaming with you just as if you were at school.
- Recorded lessons will be posted to Teams and accessible to the students. If you are away from class, please follow the lessons by watching them on Teams. The assignment is usually given at the end of the lesson.
- Communication will be via Teams in the form of Posts to all the students in the class or as a Chat to 1 or more specific students. Ensure that notifications are enabled on your Team for this class. School email may also be used for communication.
- Most graded assignments will be submitted electronically through Teams.
- Daily practice problems will be checked by the student using the answer keys provided. Students should ask for clarification on questions they did not understand or completed incorrectly.

Assessment/Evaluation:

If a student is required to self-isolate for a period of time and is, therefore, unable to attend class when an assessment is scheduled, alternative assessment methods will be determined. For example, receiving the assessment electronically and live streaming with me during the class time period when the assessment has been scheduled.