Mathematics 10T/F – Grade 9 Math
Course Outline- Alt ed

Instructor: Mr. Jim Turner

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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 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 - 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.

Assessment:
Summative Assessment: 100% Tests

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.

Digital Citizenship:
Technology (Streambooks, phones, graphing calculators, etc.) will be used in the classroom to enhance learning. Personal devices will be stored during class time.

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.