



Foundations and Pre-calculus Mathematics 10

Kelowna Secondary School

Course Outline



Foundations and Pre-Calculus Mathematics 10 has been designed to develop deep mathematical understanding and fluency, logical reasoning, and critical/creative thinking. There is a focus on concepts related to number sense, patterns and relations and spatial sense. Students will collaborate to investigate problems and reflect the core competencies as well as the First Peoples principles of learning.

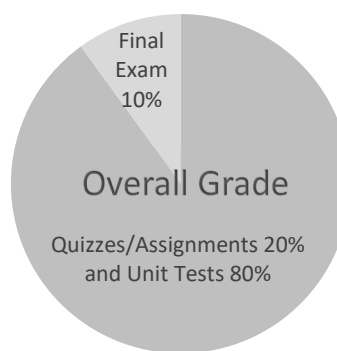
Curricular Competencies/Content

TEXT – Foundations and Pre-calculus Mathematics 10, Pearson

- Unit 1 - Review and Preview
- Unit 2 - Trigonometry:
 - Apply primary trigonometric ratios
- Unit 3 - Factors and Products:
 - expand and factor polynomials using prime factorization and decomposition
- Unit 4 - Exponents:
 - apply the exponent laws involving +/- exponents and evaluate exponents
- Unit 5 - Linear Functions:
 - graph and determine linear functions in various forms
- Unit 6 - Systems of Linear Equations:
 - solve systems using graphing, substitution and elimination
- Unit 7 - Linear Relations:
 - interpreting/sketching graphs and introducing function notion
- Unit 8 - Arithmetic Sequences:
 - identifying any term in an arithmetic sequence
- Unit 9 - Financial Literacy:
 - various ways of earning income including deductions and taxes

Evaluation

Two terms will count for 90% of the course mark and the final exam will count 10% of the overall mark. Homework assignments and quizzes* count for 20% of the mark and chapter tests count for 80% of the mark. (* corrections on quizzes are permitted and count for full marks)



- A 86% and above
- B 73% to 85%
- C+ 67% to 72%
- C 60% to 67%
- C- 50% to 59%
- F (Fail) less than 50%

Social and Personal responsibilities

1. **Regular attendance** is very important for success in Foundations and Pre-Calculus Mathematics 10. It is expected that students will attend all classes. If a student is absent for any reason, it is the student's responsibility to obtain missed notes and adequately complete any missed assignments. Daily assignments, notes and homework can be obtained via my website. Please check JupiterGrades for progress or send me an email.
2. Come to class prepared with all required **supplies**: 3 ring binder, paper (lined and graph), pencils, marking pen, erasers, textbook and **scientific calculator**. Notebooks are to be kept in a neat and comprehensive fashion with homework **pages** and question **numbers** clearly labeled and dated.
3. Behavior in the classroom must reflect a professional manner where the student strives to reach their potential (also not inhibit others from reaching their potential). Cell phone, iPods and related electronic equipment along with food and drinks (other than water) must **NOT** be visible during class time. If I see any of these items during class time then I will confiscate them until the end of the period.

I wish you all a very successful year!

Mrs. Sininger
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