Foundations of Mathematics 12
Course Outline

Ms. Bakermans – Room 649
lbakermans@sd57.bc.ca
(250) 562-6441 ext. 649

Welcome to Foundations of Mathematics 12!

Class website: https://lbakermans.weebly.com/fom-12.html

Contacting Me

The best way to contact me is by email (lbakermans@sd57.bc.ca).

Course Content *(to know)*

- Set Theory & Logic
- Counting Methods
- Probability
- Polynomial Functions
- Exponential & Logarithmic Functions
- Sinusoidal Functions
- Investing Money
- Borrowing Money
- Geometric Explorations

Curricular Competencies *(to be able to do)*

- Reasoning and modelling
- Understanding and solving
- Communicating and representing
- Connecting and reflecting

For more information about learning standards for this course, please see:
https://curriculum.gov.bc.ca/curriculum/mathematics/12/foundations-of-mathematics

Big Ideas *(to understand)*

- Probabilistic thinking informs decision making in situations involving chance and uncertainty.
- Modelling data requires an understanding of a variety of functions.
- Mathematical analysis informs financial decisions.
- Through explorations of spatial relationships, we can develop a geometrical appreciation of the world around us.

Required Materials

- graphing calculator*
- 3 ring binder
- lined paper or notebook
- pencil, pen, eraser
- straight edge
- *Foundations of Mathematics 12* textbook

*TI-83 calculators can be borrowed from the office with a post-dated cheque for $130 and a signed Calculator Loan Agreement form.

Grading

Students will be graded based on learning outcomes throughout the semester. The indicators used to identify the student's level of understanding of the learning outcome are:

NO EVIDENCE	MORE PRACTICE needed	Meeting **SOME**	Meeting **MOST**	Meeting **ALL**
Student has **not attempted** the task.	Student can **not** demonstrate an **adequate** understanding of the task as it includes **significant errors.**	Student can demonstrate a **partial** understanding of the task with **some errors.**	Student can demonstrate a **complete** understanding of the task with **minor errors.**	Student can demonstrate a **complete** understanding of the task with **no errors.**
The student is encouraged to complete task so appropriate feedback can be provided.	The student is encouraged to practice, and/or seek further instruction before reassessing.	The student is encouraged to practice, and/or seek further instruction before reassessing.	The student may wish to practice and/or seek further instruction however this is not necessary.	The student has fully satisfied the learning outcome, no further work is necessary.

There will be opportunities throughout the semester to demonstrate an improved understanding of learning outcomes that were not previously mastered.

- **Assignments:** Generally, assignments will be used as formative assessment only and will not be formally graded.

- **Quizzes:** Students may or may not be informed of an upcoming quiz. If a quiz is unsuccessful the student is expected to go over it independently, with a classmate, or with me as soon as possible.

- **Tests:** Students will be made aware of test dates approximately a week in advance. Every effort should be made to be in class on the day of the test. If the student knows of a scheduling conflict I should be made aware immediately so an alternate date can be scheduled.

- **FINAL EXAM:** A cumulative final exam, worth 30% of your final grade, will be given at the end of the semester.

Progress reports will be posted on the course website and protected by a password (student number). They will also be emailed home periodically.

Classroom Expectations

- **Come to class on time, with all necessary supplies.**

- **Contribute to a positive learning environment.**
  Ensure that you give yourself and others the best possible opportunity to learn. Be considerate and attentive during class time, particularly when others are speaking or asking questions. Leave your desk and work area clean.

- **Put your cell phone away and remove earbuds during instruction and class discussion time.**
  Please note that cellphones are not acceptable as calculators.

- **Keep up with assignments, do your best, and seek help when you get stuck.**
  If you do not understand something, please ask for help as soon as possible. In addition to in-class assistance, I am usually available during Wednesday tutorial block and at lunch most days. Expert help is also available from the Math Department every day at lunch in room 602.

- **Take responsibility for missed notes, assignments, quizzes and tests**.
  We will constantly be building on the topics from the previous lessons; regular attendance is critical for success. You are responsible for obtaining class notes and completing any work missed when you are away. Please contact a classmate or myself *prior* to the beginning of the following lesson to see what you have missed. Completed notes and assignments are typically posted on the course website at the end of every school day.

Contact Information

Please complete the contact information below and sign to confirm that you have read and understood the **Foundations of Mathematics 12 Course Outline**.

Student's name: _____

Parent/guardian name(s):

1. _____

    phone: _____

    email: _____

2. _____

    phone: _____

    email: _____

Is there any information that may impact this student's learning or attendance that you would like me to be aware of?

_____

_____

_____

_____

Student signature: _____

Parent/guardian signature: _____