

# **FOUNDATIONS 12 OUTLINE**

Text: Foundations 12 (Nelson)

## Chapter 1: FINANCIAL MATHEMATICS: INVESTING MONEY

- a) Simple Interest
- b) Compound Interest

## Chapter 2: FINANCIAL MATHEMATICS: BORROWING MONEY

- a) Loans
- b) Credit

## Chapter 4: COUNTING METHODS

- a) Permutations
- b) Combinations

## Supplement: FRACTALS

## Chapter 5: PROBABILITY

- a) Probability and Odds
- b) Independent Events

## Chapter 6: POLYNOMIAL FUNCTIONS

- a) Graphs and Equations of Polynomial Functions
- b) Line and Curve of Best Fit

## Supplement: CONICS

## Chapter 7: EXPONENTIAL AND LOGARITHMIC FUNCTIONS

- a) Characteristics of Exponential Functions
- b) Characteristics of Logarithmic Functions

## Chapter 8: SINUSOIDAL FUNCTIONS

- a) Graphs of Periodic Functions
- b) Modelling Data with Sinusoidal Functions

## Supplement: Tessellations

## **Marks**

In this course we will use Standards-based grading. Standards-based grading measures students' mastery of the Foundations 12 Curriculum, or in other words, how well students understand the course material. The goal of this approach is to provide the teacher, student, and parent/guardian with a clear picture of the students' progress, and to provide a framework for dialogue about how students can move forward with their learning.

## **Classroom Expectations and Procedures**

1. Show up on time. This means sitting in your own desk when the bell rings. If you are late, enter quietly and do not disturb the class. If you are late for a quiz or test, you will not be given extra time.
2. Homework will be assigned each class and will be expected to be complete at the beginning of the next class. **If you miss class, you are still responsible for the homework.** Contact a friend from school or check my website for all homework assignments.
3. **You will not be allowed to write a missed exam unless one of your parents or guardians phones me ahead of time.** You will make up the exam at my convenience, but you should be prepared to write the exam the day you return to school.
4. Drop-in help is available before school every day and after school on Wednesdays and Thursdays. Come for extra help as needed – DO NOT wait until the day before the test!
5. Everyone treats all members of the classroom with respect and consideration.

Class website: <http://drakemath.weebly.com/>