**Pre-Calculus Math 30-1**

**Semester 2: January to June 2013**

Mrs. MacKay

**Resource: McGraw-Hill Ryerson Pre-Calculus 12**

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| **Chapter** |  | **Concepts** | **%** | **Approx. Date Completed** |
| **1** | **Transformations** | * Horizontal & Vertical Translations * Reflections & Stretches * Combining Transformations * Inverse Functions | 10 | Feb. 20 |
| **3** | **Polynomial Functions** | * Characteristics of Poly. Functions * Remainder Theorem * Factor Theorem * Equations & Graphs of Poly. Functions | 10 | Mar. 6 |
| **2 & 9** | **Radical Functions &**  **Rational Functions** | * Transformations of Radical & Rational Funct. * Square Root of a Function * Solve Radical & Rational Equations | 16 | Mar. 19 |
| **7 & 8** | **Exponential Functions &**  **Logarithmic Functions** | * Characteristics of Exp. and Log Functions * Transformations of Exp. and Log Functions * Laws of Logarithms * Solving Exp. and Log Equations | 19 | April 15 |
| **10** | **Function Operations** | * Sum & Difference of Functions * Product & Quotient of Functions * Composition of Functions | 8 | April 22 |
| **4 & 5** | **Trig and the Unit Circle &**  **Trig Functions and Graphs** | * Angle Measures and Arc Length * Unit Circle * Trig Ratios * Graphing & Transforming Trig Functions * Solving Trig Equations | 19 | May 13 |
| **6** | **Trig Identities** | * Reciprocal, Quotient and Pythagorean Ident. * Sum & Difference and Double Angle Ident. * Proving Identities * Solving Equations Using Identities | 10 | May 24 |
| **11** | **Permutations, Combinations &**  **the Binomial Theorem** | * Fundamental Counting Principle * Permutations * Combinations * Binomial Theorem | 8 | June 5 |

**Expectations**

Regular attendance and punctuality are necessary requirements to ensure the educational success of each student.

Students are expected to be present in class for all exams. If a student misses an assessment, they should expect to write a make-up assessment as soon as they return to class.

Please ensure you have access to **Powerschool** and keep up to date with your academic progress in this course.

**Assessment**

It is essential that students have completed and corrected all assignments on a daily basis.

Continuous evaluation will be used to measure each student’s performance.

When no Other Assessments items are collected, the chapter exam will be considered at a weighting of 100%.

**Technology & Resources**

TI-Nspire or **TI-Nspire CX** calculator is recommended for this course.

Access to the internet at home is beneficial for this course as we will be referring to our virtual classroom for resources for learning.

Answer keys are provided in the text as well as on the virtual classroom.

**Exams 75 %**

**Other Assessments Items 25%**

**Term Work 50%**

**Diploma Exam (June 25) 50%**