



Pre-Calculus 11

Mr. Herlaar: aherlaar@sd61.bc.ca www.mrherlaar.weebly.com

Welcome to Pre-Calculus of Math 11. In this course students will further their exploration of the mathematic concepts discussed in Math 10. There will be significant emphasis on learning and understanding, being able to think critically, and overcome challenges. The math discussed in this course is vast and can be quite abstract. Topics include but are not limited to: radicals, rational functions, quadratic functions and equations, income and interest, and trigonometry.

OBJECTIVES (Curricular Competencies)

- **Use Reasoning and Fluent, Flexible, and Strategic Thinking** to explore mathematical concepts and ideas; using mental mathematics, technology, and contextual experiences **creatively with wonder and curiosity**
- **Apply Flexible and Strategic Approaches** to aid in the problem solving processes connected contextually to personal and cultural experiences, with **Persistence** and a **Positive Disposition**.
- **Improve Confidence in Mathematical Fluency** by using **Mathematical Vocabulary**, **Taking Risks** in classroom discussions, and **Explaining and Justifying** decisions in a multitude of ways
- **Make Connections** both personally and to day-to-day scenarios, while **Reflecting** on mathematical thinking to help make decisions, and use **Mistakes as Opportunities to Advance Learning**

TEXTBOOK

- Mr. Herlaar will provide students with Workbooks, and extra material

***Calculators are required for this course* (SHARP EL-510RN is PREFERRED)**

****Cell phones should not be used as calculators****

EXTRA SUPPORT

- ❖ All notes and workbook questions will be provided at www.mrherlaar.weebly.com
- ❖ There are full e-lessons for each workbook as well as additional videos targeting specific concepts

EVALUATION

- ❖ This semester the class will be evaluated using Proficiency Based Grades
- ❖ This will involve a lot of self-reflection and honest critique of their learning
- ❖ At the end of each reporting period Proficiency Marks will be converted into a percentage
- ❖ Included in evaluation are: summative section tests, handouts, and competency reflection packages
- ❖ See the attached rubric for Curricular Learning-Target and Core Competency evaluation
- ❖ Core Competency Reflection and Section Tests for each unit will be used to determine an overall evaluation of meeting both the curricular and core competencies for the course.