Pre-Calculus 12
Mr. M. McVittie - April 2021

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Google Classroom code available

Zoom Room: code available

TOPICS OF STUDY

To meet the Pre-calculus 12 content learning outcomes, the following units will be studied - not necessarily in this order:

- Transformations of functions & relations
- Exponential functions & equations
- Geometric sequences & series
- Logarithms
- Polynomial functions and equations
- Rational functions
- Trigonometry functions
- Trigonometry identities

CURRICULAR COMPETENCIES

The following curricular competencies will be developed in Foundations of Mathematics 11:

Reasoning and modeling ● Develop thinking strategies to solve puzzles and play games ● Explore, analyze, and apply mathematical ideas using reason, technology, and other tools ● Estimate reasonably and demonstrate fluent, flexible, and strategic thinking about number ● Model with mathematics in situational contexts ● Think creatively and with curiosity and wonder when exploring problems	**Understanding and solving** ● Develop, demonstrate, and apply mathematical understanding through play, story, inquiry, and problem solving ● Visualize to explore and illustrate mathematical concepts and relationships ● Apply flexible and strategic approaches to solve problems ● Solve problems with persistence and a positive disposition ● Engage in problem-solving experiences connected with place, story, cultural practices, and perspectives relevant to local First Peoples communities, the local community, and other cultures
Communicating and representing ● Explain and justify mathematical ideas and decisions in many ways ● Represent mathematical ideas in concrete, pictorial and symbolic forms ● Use mathematical vocabulary and language to contribute to discussions in the classroom ● Take risks when offering ideas in classroom discourse	**Connecting and reflecting** ● Reflect on mathematical thinking ● Connect mathematical concepts with each other, other areas, and personal interests ● Use mistakes as opportunities to advance learning ● Incorporate First Peoples worldviews, perspectives, knowledge, and practices to make connections with mathematical concepts

ASSESSMENT:

• **Learning Activities**: You will be assessed using one or more of the following types of activities: assignments, worksheets, problems, projects, reflection writings, quizzes, and tests.

• There will be two types of assessment: (1) student ability to understand the prescribed learning outcomes and (2) student effort

• (1) Two types of assessment of understanding will take place:

  o Formative assessment: All assigned work is designed to help you understand the concepts within the course. Practice assignments will not count towards your final grade but they are required work.

  o Summative assessment: Assessments such as tests, projects, and some assignments will count towards your final grade. You will always be informed when an assessment is summative and will have an effect on your final grade. You may be required to complete a minimum amount of practice to demonstrate your readiness before completing the summative assessment.

• (2) Effort will be assessed using the rubric available to students and parents

COURSE GUIDELINES:

• The concepts of this course are more easily remembered if they are learned, not just memorized. This is best achieved through practice so complete all activities and assignments.

• Assignments will not always be collected but are needed for practice. We will discuss homework assignments during class time.

• If you are absent, it is your responsibility to find out what you missed and complete the work. Missed assignments can be retrieved from Mr. McVittie during class, or from our Google Classroom. If you are absent more for more than one day, you need to contact Mr. McVittie so we can plan for your absence.

COMMUNICATION:

My email and cell phone number are listed at the top of the front page. Students are expected to have access and check daily our Google Classroom. You can text me with photos or quick questions, but I may not answer you right away. If you are away from school, but are able to Zoom in you may be able to catch the lesson.

EXPECTED BEHAVIOUR:

Arrive on time, do not leave the room without permission, do not interfere with the learning of other students