

# Pre-calculus 12 Course Outline

**Teacher:** Ms. Bagri

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Welcome to Pre-calculus 12 class! Pre-calculus 12 is an abstract, academic, and highly rigorous course. It is designed to prepare students for first year university mathematics. This is the course for students who will study calculus in a post-secondary institution.

## Big Ideas

Using **inverse** is the foundation of solving equations and can be extended to relationships between functions.

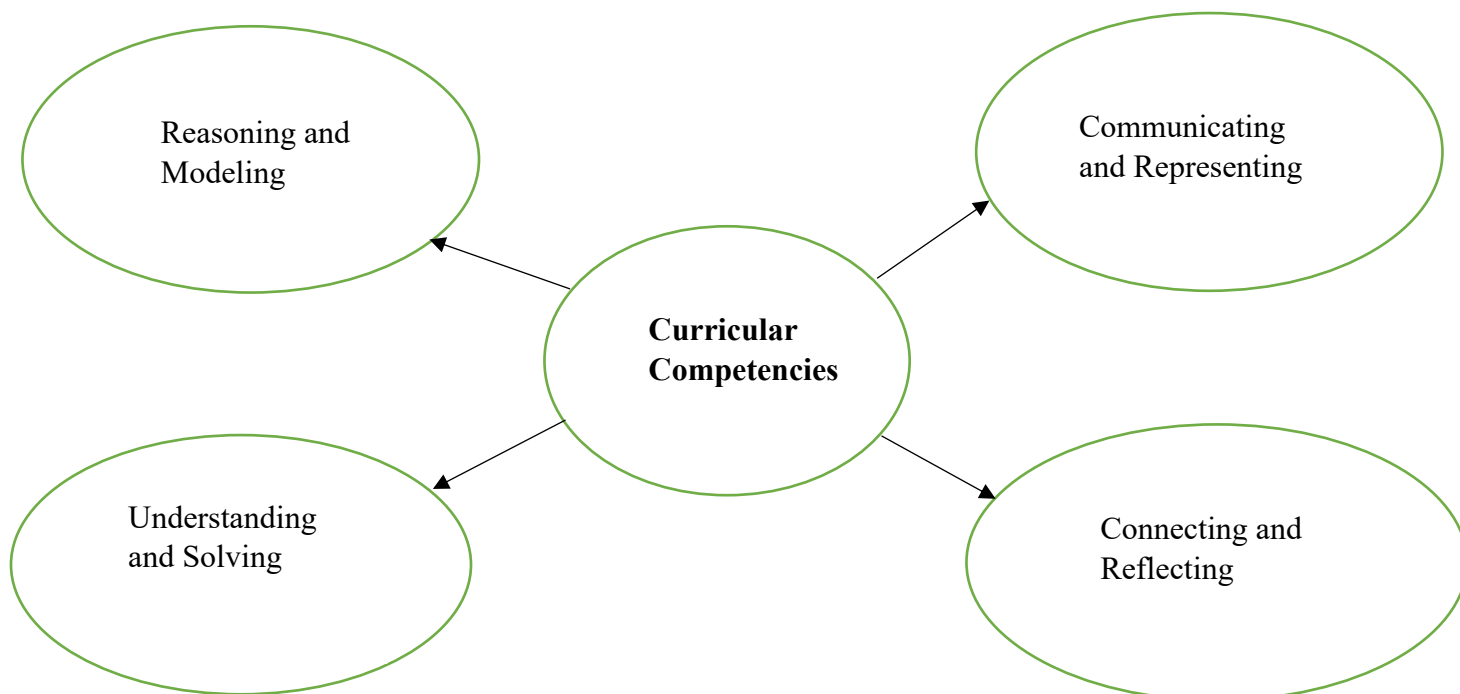
Understanding the characteristics of families of **functions** allows us to model and understand relationships and to build connections between classes of functions.

**Transformations** of shapes extend to functions and relations in all of their representations.

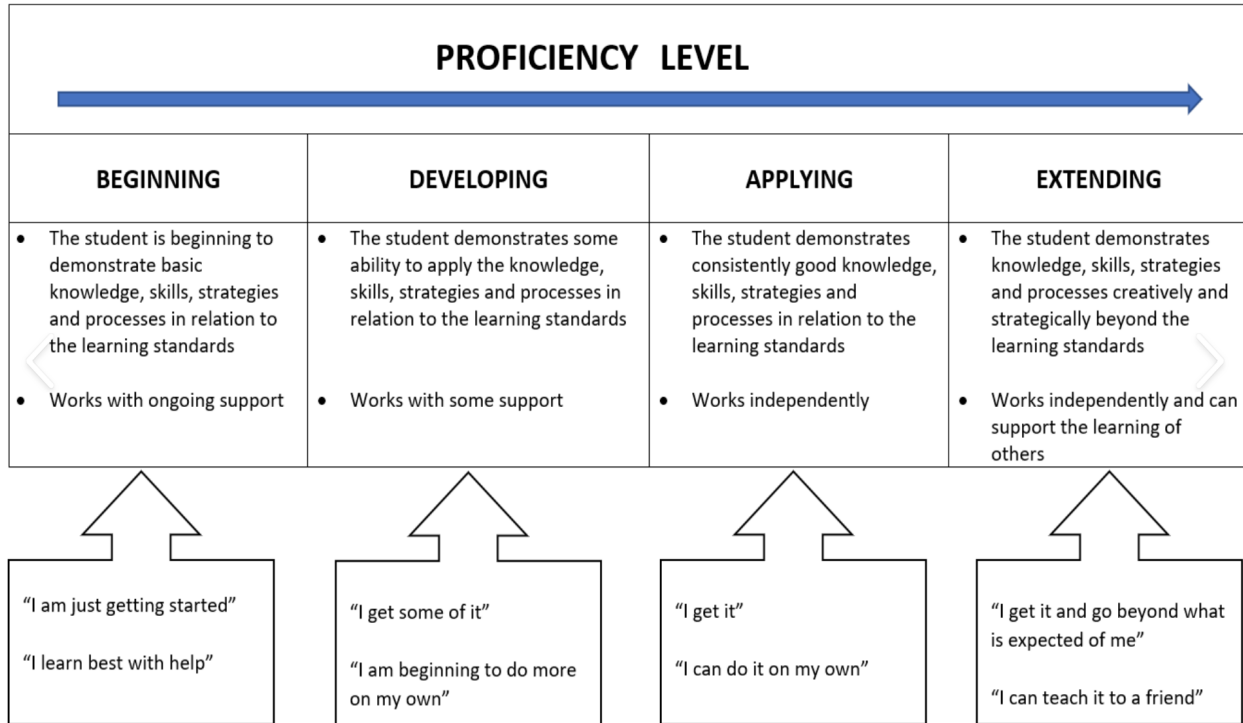
## Content:

Students are expected to know the following:

- ❖ **Transformations** of functions and relations
- ❖ **Exponential** functions and equations
- ❖ **Geometric** sequence and series
- ❖ **Logarithms:** Operations, functions and equations
- ❖ **Polynomial** functions and equations
- ❖ **Rational** functions
- ❖ **Trigonometry:** functions, equations and identities



**Assessment:** Feedback will be provided to you based on course specific standards and the proficiency scale indicated below:



**Grade Distribution:** your final mark will be determined as follows:

Quizzes = For formative assessment (to help you understand where you are in your learning and what you need to work on)

Unit Tests = 80%

Final Exam = 20%

**Supplies:**

- ❖ 3- ring binder with lined papers and dividers
- ❖ Pencil/eraser or Pen, ruler, highlighters
- ❖ Course Notes
- ❖ Calculator

**\*\* Please bring ALL these supplies to class everyday. Students will NOT be allowed to return to their lockers to get supplies after the bell goes! \*\***

## Classroom Expectations

**Punctuality:** you are expected to come to class each day **on time**. When you are late, you miss the important information, sometimes the beginning of the new concept and you feel lost throughout the class. Also, late students disturb other students and interrupt teacher. Please be on time everyday.

- If you are late without a valid reason consistently, after 3 warnings, your parents will be contacted.

**Attendance:** Please do not miss a class unless there is a reasonable medical or personal issue. By missing a class, you could miss a whole new concept which could be hard to catch up later.

- If it is one or two class, your homework will be posted on Teams, so make sure to go to teams and check your homework and go over it so that you can follow the new lesson.
- If you miss 3 or more classes, your parents will be contacted.

**Cell – Phone:** please keep your cell phones in your bag during class time. You may use it if you are instructed to do so. If you have your phone out, after three warning, I will advice you to put it at the designated area.

**Respectful Participation:** please respect your teacher, your classmates and classroom always. You are expected to listen to what others have to say, including both the teacher and the students. Use appropriate language and volume. Keep the classroom and equipment clean. Also, do not pack your material to leave unless your teacher directs you to do so at the end of the class.

**Bathroom Breaks:** Always ask the teacher if you need to exit the classroom for any reason including washroom breaks so that I know where you are in case of emergency. No more than 2 people at a time.

**Food/ Drinks:** No food and drinks allowed in the classroom (except water)

### Tips for Success –

- come to class prepared and on time – you should not have to borrow anything from me, or other students.
- Be open and willing to learn, pay close attention to lessons and take good notes.
- Start assignments right away, while ideas are fresh, and the teacher and classmates are available to help.
- Stay on top of your assignments every day – be persistent with difficult questions, come in for help, or ask in the next class.
- Set specific, positive and reachable goals
- Stay organized! Don't loose papers in your binder since you need them throughout the semester.

**I wish you all the success in this course! I am here to help you, so please don't hesitate to ask questions, or make arrangements with me to see me after school any day of the week.**

