



Precalculus Instructional Plan: Fall Semester

Course Overview

Welcome to **Precalculus**. Precalculus is the preparation for calculus. This course will strengthen and enhance student's conceptual understanding and mathematical reasoning used when modeling and solving mathematical and real-world problems. Students will investigate and explore mathematical ideas, develop multiple strategies for analyzing complex situations, and use technology to build understanding, make connections between representations, and provide support in solving problems. Ideas will be explored through class discussions, independent investigations, and group work through multiple formats.

Contact Information

Teacher Name: Jennifer Garcia Villanueva , Edi Delucas

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Classroom Expectations

Be Respectful

Respect your teacher, classmates, and the learning environment.
Listen actively, use appropriate language, and respect differing opinions.

Be Prepared

Bring required materials (notebook, calculator, assignments) to class daily.
Review previous lessons and complete all homework on time.

Participate Actively

Engage in class discussions, group activities, and ask questions when needed.
Stay focused and avoid distractions (e.g., phones, side conversations).

Follow Directions the First Time

Listen carefully and follow all instructions promptly and accurately.
Use time wisely and stay on task.

Maintain Academic Integrity

Do your own work and avoid plagiarism or cheating during assignments and assessments.

If expectations are not met a meeting with the teacher, parent(s), and/or assigned Principal will be set.

Attendance Policy & Its Importance

A strong association exists between regular class attendance and successful completion of the class. You are strongly encouraged to be present in school whenever possible, ready and willing to learn. So, put your best foot forward and let's have a great year!!

Please notify the school if your child will be absent. Frequent or extended absences may make it more difficult for your child to learn necessary foundational skills that ensure student success this year and in future school years.



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Learning Objectives

By the end of the first semester, students will be able to:

Unit 1: Functions & Their Properties

- Understand and interpret functions in multiple forms (graph, table, equation, verbal).
- Determine domain, range, intercepts, symmetry, end behavior, and intervals of increase/decrease.
- Apply transformations: shifts, stretches, compressions, and reflections.

Unit 2: Polynomial Functions

- Perform operations and factor polynomials.
- Solve polynomial equations and inequalities.
- Graph polynomials, identifying zeros, multiplicities, turning points, and end behavior.
- Model real-world situations using polynomial functions.

Unit 3: Rational Functions

- Simplify rational expressions and solve rational equations/inequalities.
- Graph rational functions, including asymptotes, intercepts, holes, and end behavior.
- Apply transformations and solve contextual problems with rational models.

Unit 4: Radical Functions

- Simplify and solve radical expressions, equations, and inequalities.
- Graph square root and cube root functions with transformations.
- Identify domain, range, intercepts, end behavior, and apply to real-world problems.



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Course Resources

- Google Classroom, DeltaMath, Khanmingo, IXL, etc.

Grading Policy

- 60% Tests & Projects
- 30% Quizzes
- 10% Daily Work- Practice, lesson activities, etc.

Assessment Retakes

In order to reassess, you must first make sure that you have:

- 1) no missing homework assignments for the unit
- 2) submit test corrections form.

You may reassess at any point during one of my tutorials within 4 days (or otherwise specified by teacher) of receiving your score. According to district policy, the highest grade a student can earn on a reassessment is a 75. A student who does not complete the original assessment is not eligible for redo.

Makeup Work

If absent, you will be assigned a grade of zero (0) for all work missed. It is your responsibility to obtain and complete the work missed for each absence.

- Check Google Classroom for missing assignments
- You will be given 1 day per each day of the absence to turn in those assignments.
- School related absence: You must request your work before leaving. (UIL Policy)
- If you are absent on review day or test day, you must speak to the teacher to arrange testing time.

Late Work

We will follow district policy:

- 1 class day late - A maximum grade of 90
 - 2 class days late - A maximum grade of 80
 - 3 or 5 days late - A maximum grade of 70
- After five school days, work does not have to be accepted and a grade of 0 may be assigned

School-wide System of Communication

Communication will primarily occur through email or text message.

Please feel free to reach out with any questions or concerns. We are excited to work together to make this a successful year of learning!

Please fill out the portion below and return this portion to your teacher.

We acknowledge that we have read and that we understand the expectations in Statistics. We agree to contact the teacher should we have any questions or concerns regarding this instructional plan.

Parent Name:

Student Name:

Cell Phone Number:

E-Mail:

Parent Signature :

Student Signature:

Date: _____