AP Calculus AB Syllabus

Teacher
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Course Overview

AP Calculus AB is equivalent to a first-semester college calculus course. Topics include functions, limits and continuity, derivatives, and integrals. The course will focus on applying the skills and concepts of calculus to modeling and solving problems across multiple representations.

Course Expectations

Students are expected to complete all homework problems to the best of their ability. If they need additional support, they can refer to the additional resources listed below.

The Personal Progress Checks (PPC) that are assigned online for this course through the student's College Board account are to be completed on time; exceptions will not be made.

Students will take regular assessments. These are short and are intended to check for understanding of concepts and skills that were recently taught. Students are required to make all corrections when the assessments are returned to them.

All projects are due by the indicated due date.

Technology

Students will be provided with a TI-84CE Plus graphing calculator during class. Some problems throughout the course will require them to use their graphing calculators.

Textbook

Demana, Waits, Kennedy, Bressoud, Boardman. *Calculus: Graphical, Numerical, Algebraic.* 4th Edition. Pearson/Prentice Hall.

Additional Resources

- Students will receive a printed copy of a year long Calculus Curriculum.
- Students will have access to videos from AP Classroom posted to Google Classroom.
- Students can log in to Khan Academy for videos and practice on topics
- Students have the option to come to tutoring Tuesday and Thursdays after school or before school by appointment

Required Materials

- 3 in Binder
- Loose leaf Paper
- Expo marker

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Course Outline and Pacing

Term 1: Limits, Continuity, Differentiation
Term 2: Differentiation, Contextual Applications of Differentiation, Analytical Applications of Differentiation
Term 3: Integration and Accumulation of Change, Differential Equations, Applications of Integrations-Average Value, Position, Velocity, Acceleration, and Area
Term 4: Applications of Integration-Volume, AP Review

Student Practice

Throughout each unit, Topic Questions will be provided to help students check their understanding. The Topic Questions are especially useful for confirming understanding of difficult or foundational topics before moving on to new content or skills that build upon prior topics. Topic Questions can be assigned before, during, or after a lesson, and as in-class work or homework. Students will get rationales for each Topic Question that will help them understand why an answer is correct or incorrect, and their results will reveal misunderstandings to help them target the content and skills needed for additional practice. At the end of each unit or at key points within a unit, Personal Progress Checks will be provided in class or as homework assignments in AP Classroom. Students will get a personal report with feedback on every topic, skill, and question that they can use to chart their progress, and their results will come with rationales that explain every question's answer. One to two class periods are set aside to re-teach skills based on the results of the Personal Progress Checks.

Reteach-Retest Policy:

Students may Retest on a test once they have shown evidence of learning the missed material through corrections and extra practice.

Grading:

Students need to give their very best effort at all times. Grades are awarded based on effort and understanding. I **DO NOT** give extra credit. Powerschool will be updated each unit.

Each Unit will consist of AT LEAST 3 grades.

- Homework
- Quiz or Activity
- Test

Make-up Work

Students are expected to take responsibility for their make-up work. Upon return, students are to check the Google Classroom for assignments that they missed. Handouts, notes, and paper assignments will be found in the absent folder for their class period and are expected to be retrieved at the beginning of class when they return.