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SYLLABUS FOR TERM 1 (FALL 2025)

Course	Teacher Contact Information	Resources
Course Name: IB Math HL 2 Course Code: MRS43B Duration: 45 minutes Frequency: M-T-W-Th-F	Name: Ms. Espinosa Room: 436 Email: Mespinosa@schools.nyc.gov	Website: K478.org Textbook: Mathematics & Applications HL Google Classroom Code:

Course Description



IB MATH HL 2

Mathematics: Applications & Interpretation HL is designed for students who are strong in mathematics but more interested in applying mathematical reasoning to real-world contexts. It emphasizes modelling, statistics, probability, and using technology (graphical display calculators, statistical software) to explore data-rich situations. The course includes content in calculus, but balanced with other applied topics.



Solve problems using logic and connect concepts to real-world applications.

Curriculum Overview

Unit 1: Introduction to Differential Calculus

Unit 2: Rules for Differentiation

Unit 3: Properties of Curves

Unit 4: Applications of Differential Calculus

Unit 5: Integration

Unit 6: Applications of Integration

Unit 7: Descriptive Statistics

Unit 8: Probability

Unit 9: Discrete Random Variables

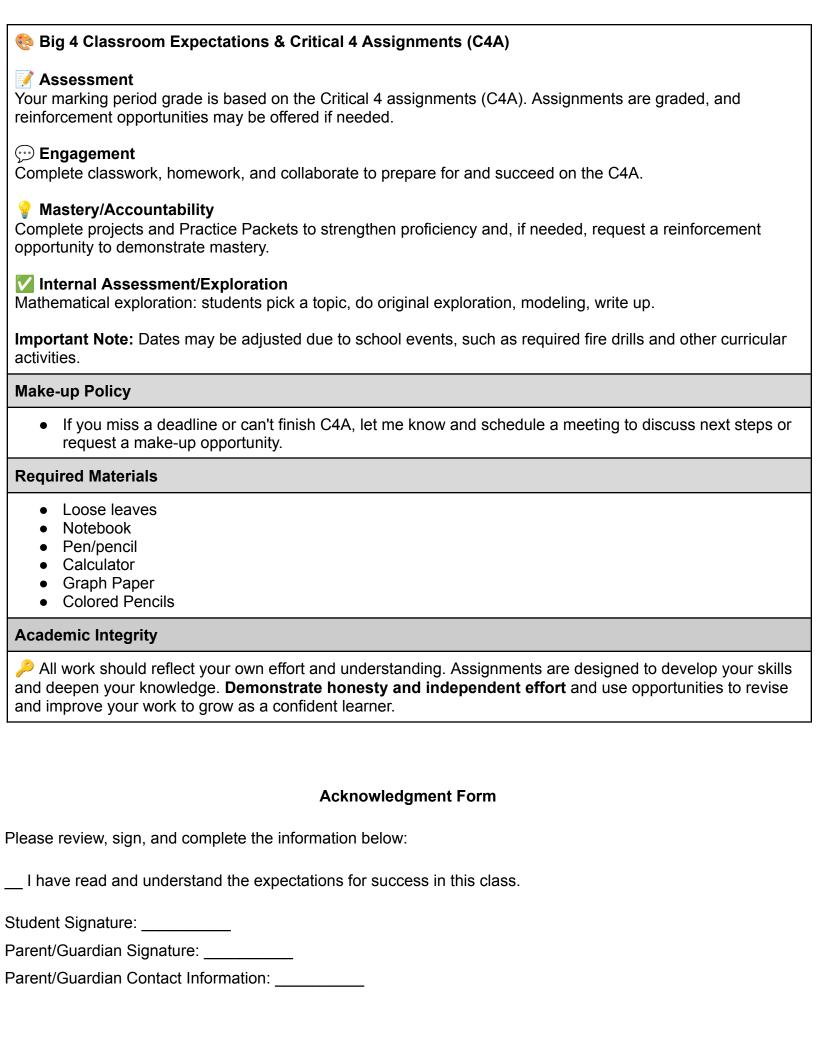
Unit 10: Continuous random variables

Classroom Values

IB Math HL demands your dedication and focus as we prepare for the IB Math exam at the end of the year. Together, we'll build a classroom where everyone can grow, feel supported, and rise to meet every goal!

- **Respect & Support**: Treat everyone with kindness and believe in your own success and your classmates'.
- Stronger Together: Value every contribution and achieve more as a team.
- Shared Responsibility: Follow our rules and routines to keep our classroom fair, focused, and productive.
- Lead with Compassion: Encourage first and correct with care.
- Y Our Goal: To develop investigative, problem-solving and modelling skills.

Grading Policy



If you have any questions or would like to share information about yourself as a student and learner, please use the space below. Parents/guardians are also welcome to include any questions or additional details.		
*This syllabus can also be found on K478.org		