

IB Math Studies SL

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Course Description: This is an IB standard level course applying Algebra II and developing Statistics and Geometry. Students will work with algebra, descriptive statistics, geometry, trigonometry, logics and probability. The course is taught using the Mathematical Studies Standard Level, by Oxford and includes: number sets, approximation and error, SI units of measurement, descriptive statistics, 2-D and 3-D geometry, math models (functions, linear, quadratic and exponential models), sequences, currency conversions, compound interest, sets and probability and logic.

Course Outline:

- | Year 1 | Year 2 |
|--|---|
| <ul style="list-style-type: none">• Descriptive Statistics• Number and Algebra• Geometry and Trigonometry• Mathematical Models• Statistical Applications | <ul style="list-style-type: none">• Introduction to Differential Calculus• Number and Algebra• Geometry and Trigonometry• Sets and Probability• Logic |

Course Guidelines

Quarter Grade is calculated out of 100% in the following way:

Unit Tests	45%
Minor Assessments	35%
Projects	20%

- For this course practice is a daily expectation.
- Quizzes will happen on a weekly basis and Tests at the end of each Unit.
- Assessment grades will be currently updated on Jupiter.
- iPad or laptop will be used up to the teacher discretion, and apps to be downloaded will be determined by the teacher along the course.

Rough Grade boundaries for IB Studies Paper 1 & 2

Score	Range		Range	
	Raw		Percent	
1	0	12	0	13
2	13	24	14	27
3	25	35	28	39
4	36	47	40	52
5	48	60	53	67
6	61	72	68	80
7	73	90	81	100

About the International Baccalaureate Diploma Program (IBDP):

The IBDP is recognized by colleges and universities around the world as a premier college preparatory course of study. As such, it is rigorous, in depth and requires a serious commitment from students wishing to complete their high school education with the tools they need to succeed at a college or university. More information may be found on the web at: <http://www.ibo.org/diploma>

About this Course:

IB Math Studies is taught over two school years. During those years students will complete activities, homework exercises, the Project (Internal Assessment), and take a two part comprehensive exam in the Spring of the second year. The mark awarded to the student (1-7, with 7 being the highest) is based on the Internal Assessment (20%) and the exam (80%). If the Project is not completed by the student, the student automatically receives a mark of 1 regardless of performance on the other aspects. Please look to the course outline for a sequence of the topics we will explore. Consistent attendance is crucial for student success in IB courses. Please make every effort to attend every class on time, ready to work.

Materials:

- notebook (for taking notes in class and completing homework exercises)
- pens & pencils
- 15 cm (or larger) ruler
- protractor
- Calculator*

*The highly recommended calculator is a TI-84. A graphic display calculator (GDC) is used in Math Studies to help students understand concepts quickly without the need to graph each and every problem. The GDC is a valuable tool, but expensive. Please be aware that some advanced GDC's are not allowed on exams and all calculators must be re-set before each exam. If you are planning on purchasing a calculator, please contact me if you are thinking about purchasing an advanced graphic display calculator and I can give you a list of approved calculators. It may be possible to borrow a GDC during class time.