

**IB Mathematical Studies I SL Syllabus**  
**Signature School**  
**Mr. Hara Room 206**

**Course Descriptions** – Math Studies is intended to be a two-year course of study with both an external and internal assessment piece during year two. The aims of these courses are to enable students to:

- Develop mathematical knowledge, concepts and principles
- Develop logical, critical and creative thinking
- Employ and refine their powers of abstraction and generalization.

The course concentrates on mathematics that can be applied to contexts related as far as possible to other subjects being studied, to common real-world occurrences and to topics that relate to home, work and leisure situations.

**Syllabus content**

- (2) Topic 3 - Sets, logic and probability
- (3) Topic 5 - Geometry and Trigonometry
- (1) Topic 6 - Statistics
- (4) Topic 7 - Introductory differential calculus
- (5) Topic 8 - Financial mathematics
- Topic 9 - Internal Assessment – Due in November

**Materials** –1/2” three ring binder with pockets  
loose-leaf paper  
TI-83, 83 plus, or TI 84 graphing

**Grading Scale**

A – (100% - 90%)	D – (69% - 60%)
B – (89% - 80%)	F – (below 60%)
C – (79% - 70%)	

**Grading Categories** -

1. **Tests** – Tests will count 100 pts. We will generally have a test at the end of each chapter, but longer chapters may have two.
2. **Quizzes** – Quizzes will count 25 points each. We will try to have a number of quizzes throughout the year. Quizzes will be used to determine classroom pacing and identify chapter weaknesses.
3. **Homework**- Homework sheets will be posted to the website at the beginning of each chapter. Students will be expected to

keep up on assignments on his/her own pace. Assignments will be collected the day before the test, with each section counting for 5 points. **Late homework will NOT be accepted.**

**Internal Assessment** – All students will complete an internal assessment. This is an independent original math project that will count at two test grades (20% of the IB grade).

**External Assessment** – Students will be expected to sit for the Math Studies exam at the end of the year consisting of a Paper 1 and a Paper 2. These exams will count as your final exam for the class (80% of your IB Grade).

**Contact Information**- If you have any questions or concerns you may contact me by email.

School email: [Jeff.Hara@signature.edu](mailto:Jeff.Hara@signature.edu)