

## IB Math Standard Level Year 1 (Pre-Calculus) Syllabus 2017-18

### Course Guidelines

Instructor:	Mark Rogers	Tutorial Times:	7:30am – 8:25am M-Th
Meridian Phone:	(512) 660-5230		
E-mail:	m.rogers@mwschool.org	Conference Periods:	6th (10:05 – 11:45) B-days

#### **Course Description:**

IB Math Standard Level is designed to give students a conceptual and skills-based approach to exploring statistics, functions, trigonometry, and calculus. Students will solve problems that humans encounter on a daily basis in an engaging fashion. Please see the unit titles in the Scope and Sequence on page 2 of this document.

Throughout the course, mathematical concepts will be taught with an emphasis on real-world application, technology, and cross-curricular interaction. Questions like “How do we optimize production at the potato chip factory?” “How do we apply the result of a survey to understand a broader group of people?” and “How can I use math to make my life easier?” will be addressed throughout the course.

#### **Class Resources:**

- Mr. Rogers creates a majority of the class content.
- Graphing calculator (BYOD or Meridian provides)
- Computers and tablets (BYOD or Meridian provides)

#### **Required Supplies:**

- Dry erase markers and dry erasers
- Pencil for paper-based assignments

#### **Late Work and Work Missed for Excused and Unexcused Absences:**

We will follow the Meridian Secondary School policy on late work and absences. This means that late work incurs a penalty of 10% per school day.

#### **Academic Dishonesty:**

Plagiarism or any other form of cheating is a violation of the Meridian Honor Code and is not tolerated. Those who cheat will be referred to the Assistant Principal for further consequences.

**Grading:**

20% Homework

30% Quizzes

50% Exams and Projects. Students should expect to have a major grade by the fourth week of a quarter with at least two major assessments each quarter.

Retests on major assessments are available. If a student earns below a 70% on a major assessment, the student must inform the teacher within 48 hours that he/she wants to retest. Students will be required to complete test corrections in tutorials or Saturday Opportunity School. Per Meridian Secondary School policy, the maximum grade awarded for a retest is 70%.

Extra points on test grades are available to students who complete the test review. Amount of extra credit depends on the grade earned. 5 points are awarded for an “A” on the test review, 4 points for a “B,” 3 points for a “C,” and so on.

**Tutorials:**

I’m in my room each morning at 7:30am. Please say hello and ask questions!

**Electronic Assignments:**

Students will complete some assignments online through completing a Google form. These will be enumerated on my website and clearly labeled.

**Unit Calendar:**

Unit calendars covering class activities, exams, projects, readings and other assignments for each unit are available online ([markrogers.weebly.com](http://markrogers.weebly.com)).

**Scope and Sequence:**

Unit	Time	Date
Unit 1: Series and Sequences	4 weeks	August-September
Unit 2: Differential Calculus 1	5 weeks	September-October
Unit 3: Differential Calculus 2	4 weeks	October-November
Unit 4: Trigonometry	5 weeks	November - December
Unit 5: Normal Distributions	4 weeks	January
Unit 6: Integral Calculus	5 weeks	February-March
Unit 7: Physics of Calculus	4 weeks	March-April
Unit 8: Math SL Internal Assessment	5 weeks	April-May

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### Verification of Receipt

After you have read these guidelines on [markrogers.weebly.com](http://markrogers.weebly.com) (Math SL Y1 page), please sign below and return this page to me. Alternatively, you and your parent can send me an e-mail for electronic verification.

Sincerely,

Mark Rogers

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*I have read and understand the policies covered in Mr. Rogers's syllabus.*

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*Print Student's Name*

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*Print Parent/Guardian's Name*

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*Student Signature*

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*Parent/Guardian Signature*