**IB Mathematics SL 2**

**Mrs. Wyan**

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***Struggling in mathematics is not a sign of weakness any more than sweating is a sign of weakness in sports and physical training; it is part of the process, and a clear sign of being in the game.***

***Math is not a spectator sport!***

What is this course?

IB Mathematics SL 2 is a transitional course between Algebra 2 and Calculus. There will be a great deal of emphasis on concept development, forming generalizations about mathematical concepts, and the interrelatedness of topics. Much of IB Mathematics will be building a strong foundation for further mathematical studies through the solving of unique real-world application problems. The emphasis will be on creating strong, independent mathematical thinkers.

Class Expectations**:**

As a student in this course, it is expected that you:

* Follow all rules and procedures set forth by Albany High School.
* Be in your seat with all necessary supplies when the bell rings.
* Follow directions the first time they are given.
* Take care of grooming and electronic communication outside of class!
* Be respectful at all times.
* **Be responsible with the tools I provide for you (calculators, smart board, dry erase boards, markers, crayons, scissors, etc.).**
* Complete your IB Mathematics Exploration by January 2017
* Take the IB Mathematics SL Exam in May 2017.
* Seek out the help you need.
* Check my website ([**www.mrswyan.weebly.com**](http://www.mrswyan.weebly.com)) daily!
* Always try your best!

Extra Help**:**

I will be available in the APEX room (209) M, Th almost every week and Fridays by appointment. Please email me any concerns or questions you may have. PLEASE FEEL FREE TO GET THE HELP YOU NEED! Check out my website ([**www.mrswyan.weebly.com**](http://www.mrswyan.weebly.com)) to get all the latest information.

Remind 101**:**

To sign up for Remind 101 and get text reminders about homework, tests, etc. either:

Text to : (231) 377-1572

In the message type: @ibmathssl2

**OR**

Email: @ibmathssl2@mail.remind.com

Calculators**:**

If you intend to buy a calculator, the suggested calculators are a Texas Instruments TI-nspire CX (non-CAS version). We will not be using the old TI-84 since Calculus is using the TI-nspire CX CAS and we want to get everyone used to the new calculator in the pre-calc year.

**There are also graphing calculator apps listed on my website, as well as a graphing calculator website.**

Class Grades**:**

Quarter averages are determined as follows:

* Homework**:** HW is assigned as needed and specified in the chapter packets. **No late homework will be accepted without an excuse.** If you are absent, you have 2 days to make up the work. My homework policy is simple, *“Do the work and get a check (2 points); don’t do it and receive a 0.”*

**(10% of quarter grade)**

* Projects**:** The purpose of these assignments is to help you review, reinforce, and easily recall topics you should know from previous math courses and the topics you learn in this course. You will complete one project per quarter. It must be typed and submitted digitally. The purpose of the fall projects is to prepare you for the IB exploration project in the 3rd quarter. The 4th quarter project will be after the assessment.

**(20% of quarter grade)**

* Quizzes & Tests**:** There is typically one quiz per week unless it is a test week. If you are absent the day of a quiz, you must take it upon return. You will have until the following test or quiz (whichever comes first) to make up the missing quiz.

A test will be given at the end of every unit. All tests are cumulative. If you are absent the day of a test, the make-up rules are the same as for quizzes. Make-up tests will only be allowed with a legal excuse for the absence.

**(70% of quarter grade)**

*\*\*\*I reserve the right to make changes to the grading policy as I see necessary.*

IB Units of Study**:**

Unit 1:

* Functions
* Quadratic Functions

Unit 2:

* Probability

Unit 3:

* Exponential and Logarithmic Functions

Unit 4:

* Rational Functions

Unit 5:

* Patterns, Sequences, and Series

Unit 6:

* Limits and Derivatives

Unit 7:

* Descriptive Statistics
* Bivariate Analysis

Unit 8:

* Integration

Unit 9:

* Trigonometry

Unit 10:

* Vectors

Unit 11:

* Circular Functions

Unit 12:

* Calculus with Trigonometric Functions

Unit 13:

* Probability Distributions

**What does “P.R.I.D.E.” mean to you?**

**Below is a list of student expectations for behavior that the teachers of AHS developed.**

**P**-Preparation – “On time” means being in the classroom at the bell

**R**-Respect – “Appropriate behavior” means using respectful language and being polite to others

**I**-Involvement – “Appropriate cell phone use” means cell phone allowed out at clearly defined moments

**D**-Determination – “Regularly attending class” means attending all scheduled classes

**E**-Excellence **– All of the above and Always try your best** ☺

**Please sign up for Remind tonight and I will send you a survey to complete for your first HW assignment. The survey will be sent out at 7:30pm, so don’t forget to sign up or you will miss your first HW!!!**